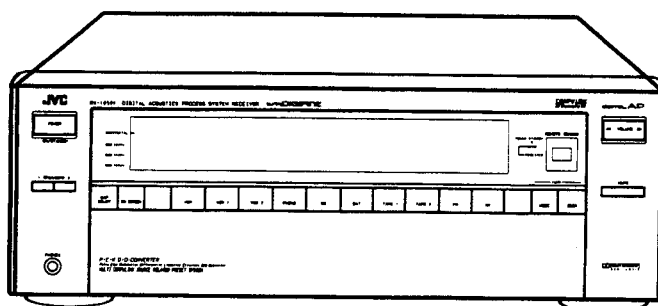
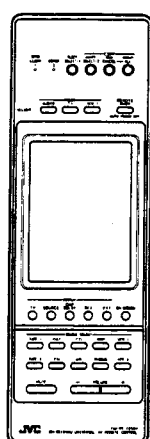


JVC

SERVICE MANUAL

DIGITAL ACOUSTICS PROCESS SYSTEM RECEIVER

RX-1050VTN



AV COMPULINK

COMPU LINK
/// Remote ///
Control Component

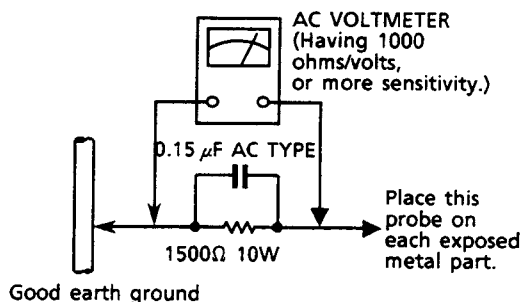
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Safety Precautions

1. The design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Services should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by (Δ) on the Parts List in the Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement parts shown in the Parts List of Service Manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.
5. Leakage current check (Electrical shock hazard testing)
After re-assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.
Do not use a line isolation transformer during this check.

- Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal parts of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5mA AC (r.m.s.).
- Alternate check method
Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having, 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500 Ω 10 W resistor paralleled by a 0.15 μ F AC-type capacitor between an exposed metal part and a known good earth ground.
Measure the AC voltage across the resistor with the AC voltmeter.
Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75 V AC (r.m.s.). This corresponds to 0.5 mA AC (r.m.s.).



Warning

1. This equipment has been designed and manufactured to meet international safety standards.
2. It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
3. Repairs must be made in accordance with the relevant safety standards.
4. It is essential that safety critical components are replaced by approved parts.
5. If mains voltage selector is provided, check setting for local voltage.

Introduction

Thank you for purchasing this JVC RX-1050VTN Receiver. We hope it will be a valued addition to your audio/video system. Be sure to read these instructions carefully before operating the receiver.

This manual gives you the basic information you need to set up and use your receiver. It explains everything you need to know from turning on the power switch to basic troubleshooting. Please consult your JVC dealer if you have any questions about the receiver.

Use the following guideline to help you follow the instructions in this manual:

- Keys or buttons to be pressed are indicated with all capital letters, like this: POWER button.
- Messages displayed on the display window are enclosed in double quotation marks, like this: "PRO LOGIC".
- Steps that you need to follow to get the correct results are labeled.
- Additional information that is helpful to know, is labeled.

Precautions in use

- The temperature around the receiver must be between 23° and 104° Fahrenheit (–5° and 40° Celsius).
- Do not insert any metallic object into the receiver.

CAUTION:

1. Do not remove screws, covers, or cabinet.
2. Do not expose this appliance to rain or moisture.

COMPU LINK is a computer-linked system by which individual JVC audio components are controlled via a computer. For further details, see page 49.

COMPU LINK Remote Control System

AV COMPU LINK is a computer-linked system by which individual JVC audio and/or video components are controlled via a computer.

Connecting the AV COMPU LINK jacks on the rear panel to a JVC video components for AV COMPU LINK will enable one-touch control of the integrated audio/video system.

AV COMPU LINK System

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Installation

This part of the manual tells you how to connect your other audio and video components to the receiver.

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Caution

Before starting installation

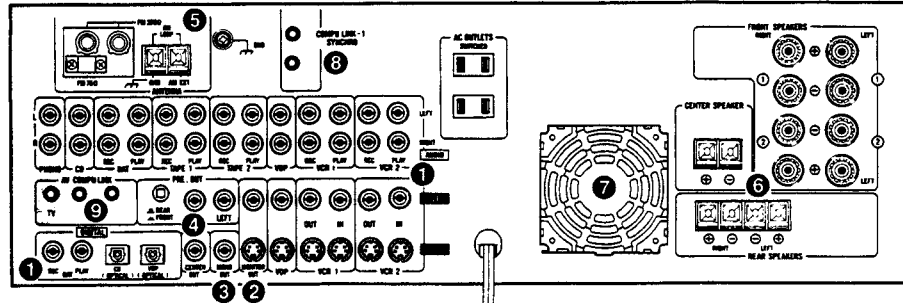
- Make sure your hands are dry.
- Turn the power off to all components.
- Read the installation instructions for all components you are going to connect.

Locating the receiver

- Install the receiver in a place that is level and protected from moisture.
- Make sure there is good ventilation around the receiver. Poor ventilation could cause overheating and damage the receiver.

A cooling fan is mounted on the rear panel of the receiver to prevent abnormal temperature rise inside the receiver, thus assuring normal operation of the receiver. The cooling fan starts rotating to supply external cool air to the inside of the receiver when the internal temperature exceeds the specified limit because of long-period operation of the receiver at a high sound level. Do not block the cooling fan and allow some space between the fan and a wall to ensure air flow.

Rear Panel



❶ AUDIO, VIDEO, S-VIDEO, and DIGITAL Jacks

Connect your audio/video components here.

- AUDIO Jacks: Analog audio signals are input and output through these jacks.
- VIDEO Jacks: Video signals (composite) are input and output through these jacks.
- S-VIDEO Jacks: Video signals (S-video) are input and output through these jacks.
- DIGITAL Jacks: Digital audio signals are input and output through these jacks.

❷ MONITOR OUT Jacks

Connect your TV here.

❸ MONO OUT Jack

Connect your subwoofer here via separate power amplifier.

❹ CENTER OUT Jacks, PRE.OUT Jacks, and PRE.OUT Selector Switch

Connect your separate power amplifier here.

❺ ANTENNA terminals

Connect FM and AM antennas here.

❻ FRONT SPEAKERS, CENTER SPEAKER, and REAR SPEAKERS Jacks

Connect your speakers here.

❼ Cooling Fan

A cooling fan is mounted to cool the inside of the receiver.

❽ COMPU LINK-1 SYNCHRO Jacks

Connect your JVC audio components for use with COMPU LINK remote control system here.

❾ AV COMPU LINK Jacks

Connect your JVC video components for use with AV COMPU LINK system here.

Connections

Important! Ensure that the connections are not reversed. Connect the REC jack on the receiver to the input jack on a source component, and the PLAY jack on the receiver to the output jack on a source component. Otherwise, no sound will be produced or the stereo image will be affected.

Audio and Video Component Connections

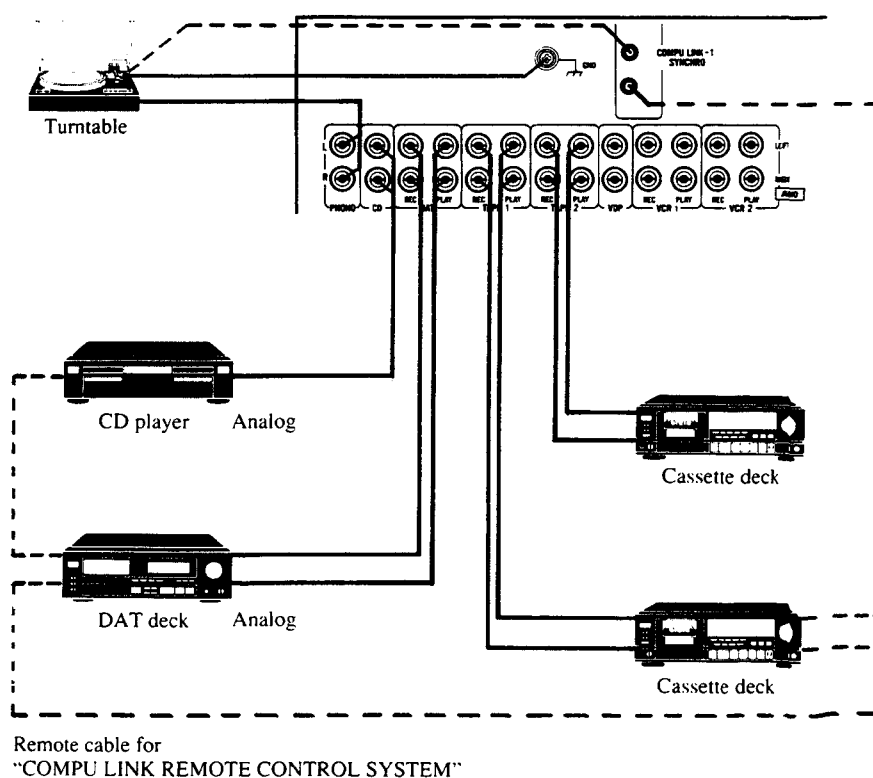
Basic Connections for Audio components

Connect the input/output jacks of your audio components to the AUDIO jacks of the receiver.

When a turntable is connected, press the MM/MC button to set the phono equalizer gain according to the type of the cartridge.

If an MM-type cartridge is used, set this button to the "MM" position. If an MC-type cartridge is used, set this button to the "MC" position. If sounds are distorted because of a too high output level of the MC-type cartridge, set this button to the "MM" position.

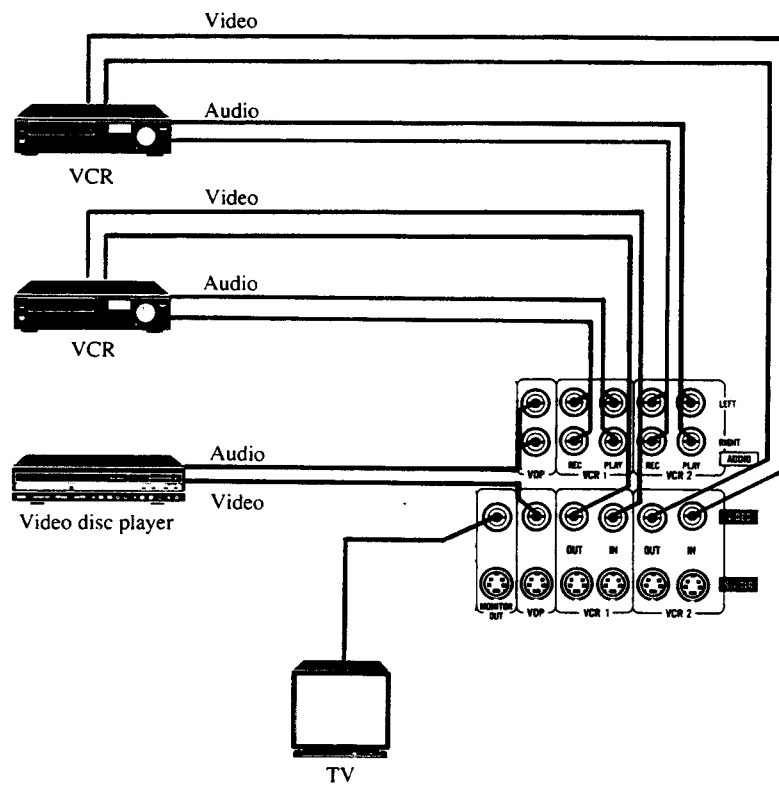
Note: Connect a ground cable, if fitted to your turntable, to the screw marked GND on the rear panel.



Basic Connections for Video components

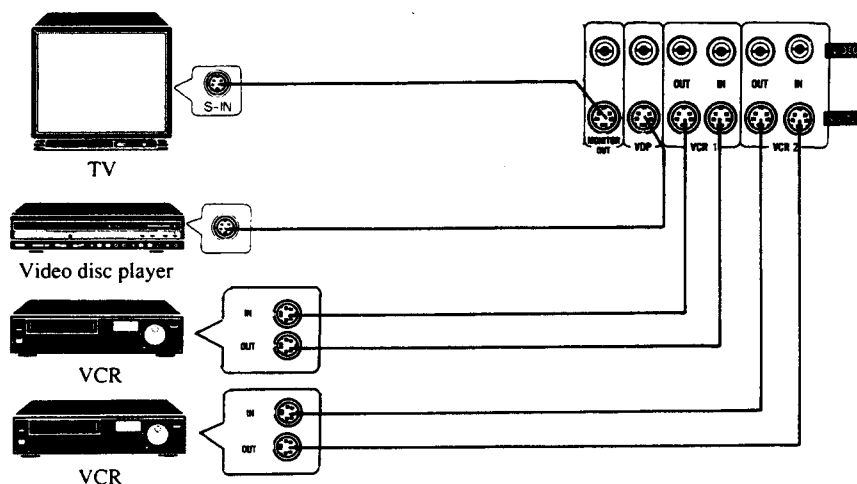
Connect the audio signal jacks of your video components to the AUDIO jacks of the receiver. Connect the video signal(composite) jacks to the VIDEO jacks.

Notes: Keep the connecting cable for your TV, VCR, and antenna away from the power cord leading from the back of the receiver. The power cord may cause noise or screen interference. It is recommended that coaxial cable is used for connection to the antenna, since it is well shielded against interference.



Video components with S-video Signal Jacks

The S-video signal jacks, if fitted to your VCR or video disc player, can be connected to the S-VIDEO jack on the receiver. Use a 75-ohm coaxial cable with an S-video plug for connection to the S-VIDEO jack.

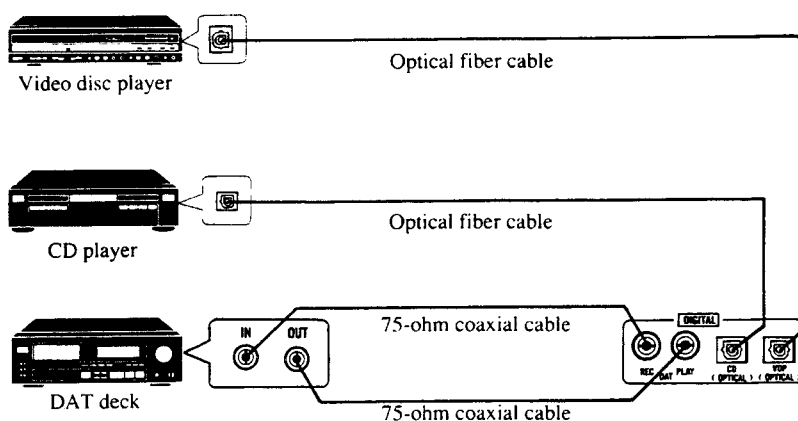


Audio/Video Components with Digital Signal Jacks

Digital signal jacks, if fitted to your compact disc player, DAT deck or video disc player, can be connected to the DIGITAL jacks of the receiver.

Connect an optical fiber cable to the jacks marked OPTICAL. Use a 75-ohm coaxial cable terminated with an RCA PIN plug for connections to other jacks.

Jacks marked OPTICAL are fitted with a protective cap in the factory. Remove the cap before making a connection.



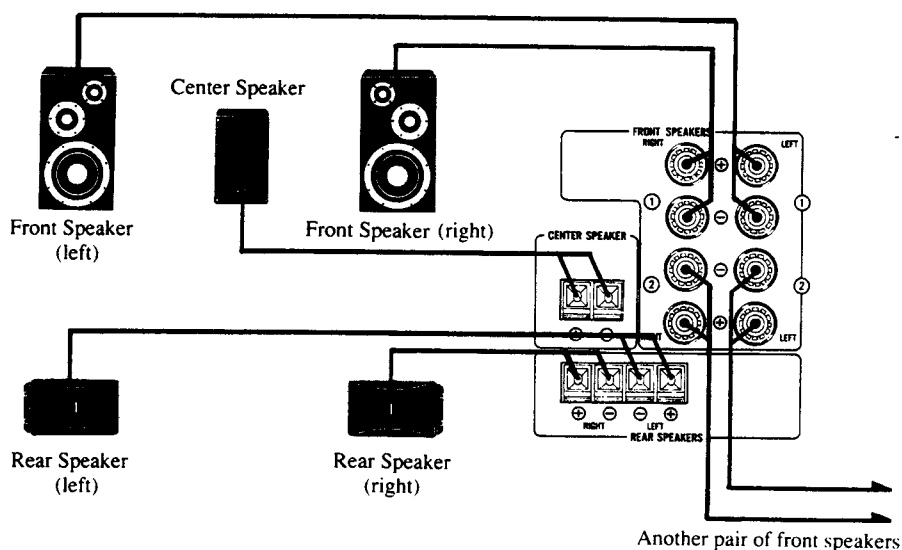
Speaker Connections

Basic Connections

In addition to two ordinary front speakers, connect two rear speakers and a center speaker to produce the effect of the built-in digital surround processor. Up to two sets of front speakers can be connected.

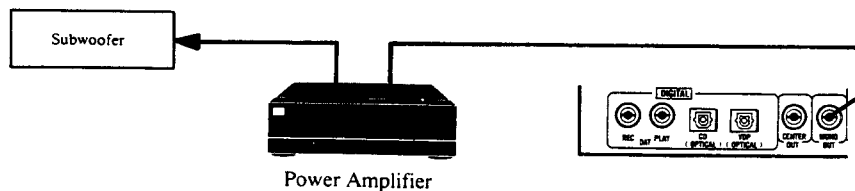
Important! Check that your speakers are of the impedance marked near the terminals.

Note: Since the center speaker is placed beside the television, use a magnet-shielding-type center speaker so that the magnetic field of the speaker does not affect the TV screen.



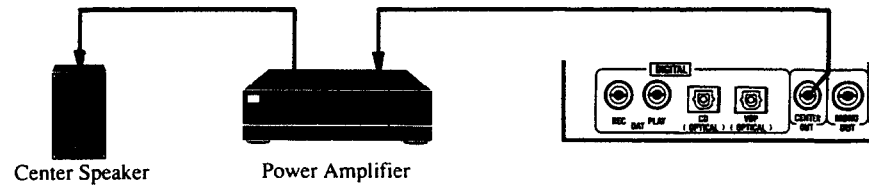
Enhancing Lower Frequencies

Connect the INPUT terminal of the power amplifier to the MONO OUT jack of the receiver and connect a subwoofer to the SPEAKER terminals of the connected power amplifier.



Using Your Separate Power Amplifier

To drive the center speaker using your separate power amplifier, use the CENTER OUT jack of the receiver. Connect the INPUT terminal of the power amplifier to the CENTER OUT jack of the receiver and connect the center speaker to the SPEAKER terminals of the connected power amplifier.

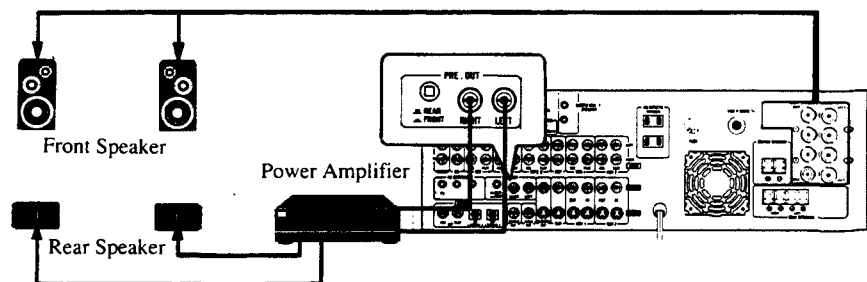


To drive front and rear speakers using your separate power amplifier, use the PRE.OUT jack of the receiver.

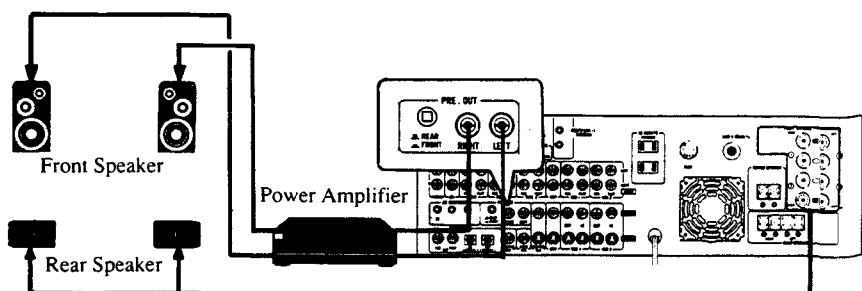
Connect the input terminal of the power amplifier to the PRE.OUT jacks of the receiver and connect speakers to the SPEAKER terminals of the connected amplifier.

Signals from either front or rear channel are output to the PRE.OUT jacks. Use the PRE.OUT selector switch to select either of these channels.

- When the PRE.OUT selector switch is released, rear channel signals are output.
- When the PRE.OUT selector switch is pressed down, front channel signals are output. At this time, rear channel signals are amplified by the built-in power amplifier of the receiver which has been amplifying front channel signals. Then, the amplified rear channel signals are output to the FRONT SPEAKERS terminals of the receiver.



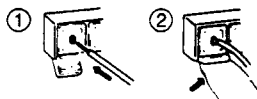
Connections when the PRE.OUT selector switch is released



Connections when the PRE.OUT selector switch is pressed down

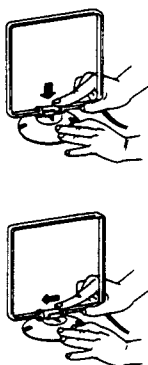
AM Antenna Connections

AM antenna terminals

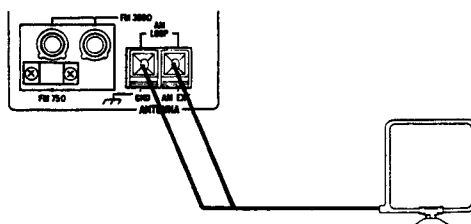


- ① When connecting AM antenna, open each terminal and insert the end of the antenna wire.
- ② Close the terminals as shown to clamp the antenna wires in place.

Basic Connections



Connect the enclosed AM loop antenna to the AM LOOP terminals on the back of the receiver. Then, attach the AM loop antenna to the antenna base and adjust its position to get the best reception.



AM Outdoor Antenna

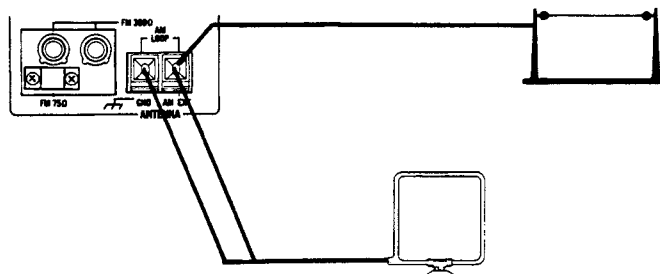
If your AM broadcast reception is unsatisfactory, you should connect an AM outdoor antenna in addition to the loop antenna.

Connect one end of the outdoor single vinyl-covered antenna wire to the AM LOOP terminal marked AM EXT.

The antenna wire should be about 16 to 40 feet (5 to 12 meters) long.

Important! The AM loop antenna must be installed to receive AM broadcasts. Do not disconnect the loop antenna when installing an outdoor antenna.

Note: Except for the connection, make sure no uninsulated antenna wire touches the rear panel of the receiver. Otherwise, the receiver might not pick up AM broadcasts.



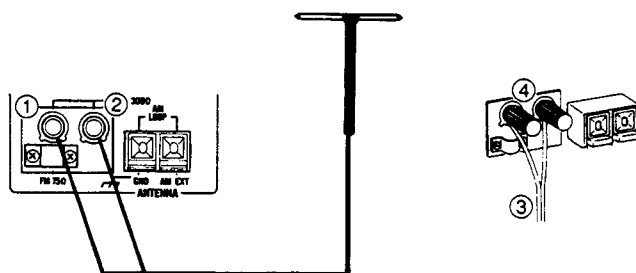
FM Antenna Connections

FM antennas use two types of cable connections: 300-ohm cables have a flat connection to the receiver. 75-ohm cables have a round coaxial connection to the receiver.

Note: Make sure the antenna conductors do not touch any other terminals on the receiver. This could cause poor reception.

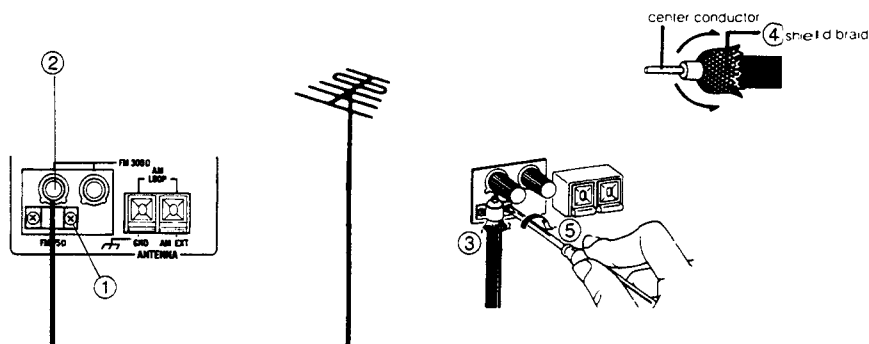
300-Ohm Antenna Cable

- ① Loosen the cap on the 300/75-ohm terminal on the rear panel of the receiver.
- ② Loosen the cap on the 300-ohm terminal on the rear panel of the receiver.
- ③ Connect the two conductors of the antenna cable to the 300/75-ohm terminal and the 300-ohm terminal.
- ④ Tighten the caps on both terminals.



75-Ohm Antenna Cable

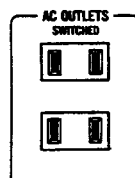
- ① Loosen the screws holding the bracket to the rear panel of the receiver.
- ② Loosen the cap of the 300/75-ohm terminal on the rear panel of the receiver.
- ③ Insert the round antenna cable through the bracket from below.
- ④ Make sure the shield braid on the cable contacts the bracket, and the center conductor of the cable contacts the 300/75-ohm terminal.
- ⑤ Tighten the bracket screws and the cap on the 300/75-ohm terminal.



AC Power Connections

AC OUTLETS

You can plug the power cords of other audio components into the AC OUTLETS on the rear of the receiver.



The AC OUTLETS are interlocked with the POWER switch. If the power switches of any audio components connected to these outlets are left on, the components automatically turn on/off as the POWER switch of the receiver is turned on/off.

Important! The total capacity of these AC outlets is marked near the outlets. Check that the audio components you want to connect do not draw more power than the marked capacity.

Power Cord

Before plugging the power cord into an outlet, ensure that all audio and video components are connected correctly.

Caution:

- Do not handle the power cord with wet hands.
- Do not pull on the power cord to unplug the receiver. Always pull the molded plug at the end of the cord instead.
- Do not plug the power cord into an outlet until all audio and video components are connected correctly.

Contents of the receiver's memory are retained while the power cord is plugged into an outlet. If the power cord is disconnected or a power failure occurs, contents are retained for two or three days.

Operation Outline

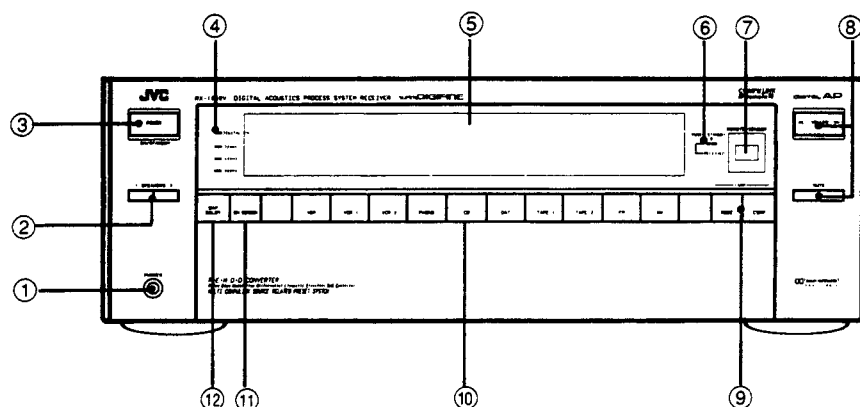
This part of the manual introduces you to the controls and indicators on the receiver and on the remote controller. It gives you the basic knowledge needed to make full use of the receiver's range of functions.

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• Selecting the Display Mode	20
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Switches, Controls, and Indicators

Front Panel

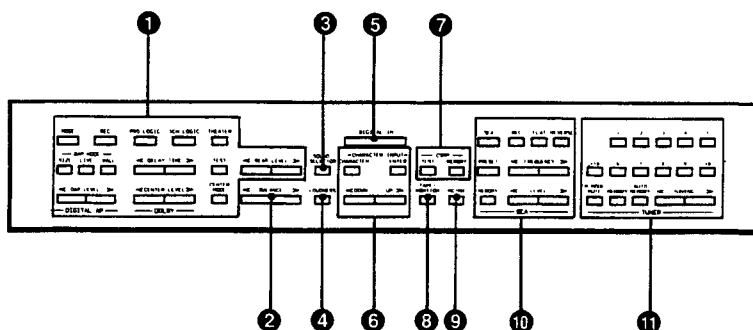


- ① **PHONES Jack:** Insert the stereo headphone jack here.
- ② **SPEAKERS Switches:** Select either of two pairs of speakers.
- ③ **POWER Switch:** Press this switch to turn on power to the receiver. Press the switch again to turn off the power and activate **STANDBY** mode.

Note: The receiver uses a small amount of power (5 watt) in the standby mode. To disconnect power completely, unplug the power cord.
- ④ **DIGITAL IN indicator and Sampling Frequency indicators:** The **DIGITAL IN** indicator indicates whether the built-in digital-to-analog converter is operating. When it is operating, the Sampling Frequency indicators indicate the sampling frequency.
- ⑤ **Display Window:** Displays the responses to various operations.
- ⑥ **RECEIVED and POWER STANDBY indicator:** This indicator lights up when signals are received from the remote controller or when the receiver is in the standby mode.
- ⑦ **Remote Sensor:** The sensor picks up infrared signals from the remote controller.
- ⑧ **VOLUME Control key and MUTE Button:** The **VOLUME** control key adjusts the output level to the speakers and headphones. The **MUTE** button mutes sound temporarily.
- ⑨ **CSRP Buttons:** Use these buttons to use the CSRP function.
- ⑩ **Source Selector Buttons:** Use these buttons to select the audio/video source.
- ⑪ **ON SCREEN Button :** Use the **ON SCREEN** button to display the receiver's function settings on a monitor connected to the **MONITOR OUT** jack of the receiver.
- ⑫ **DAP DOLBY Button:** Press the **DAP DOLBY** button to turn the built-in surround processor on or off.

Controls behind the Swing-Down Panel

Press the swing-down panel at the position shown to open it. To close the panel, click it back into place.



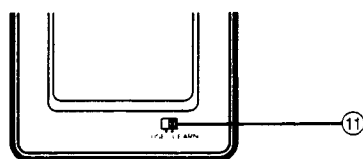
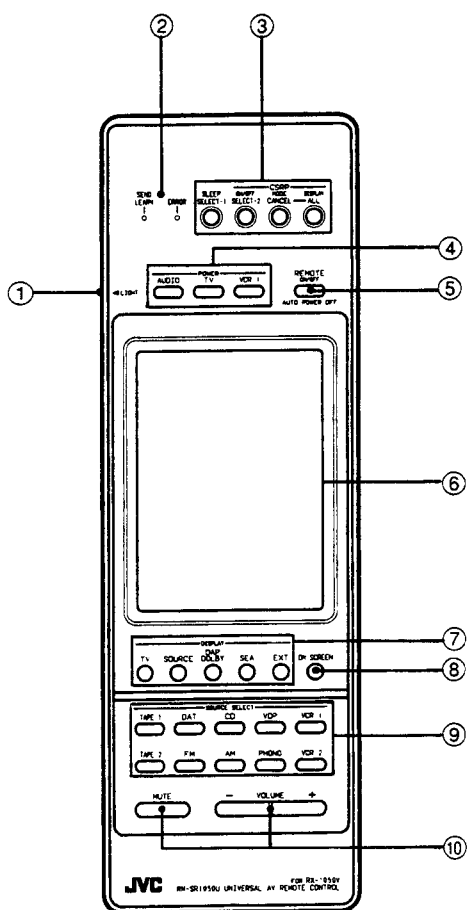
- ❶ **Surround Processor Control Buttons:** Use these buttons to set or adjust the surround processor.
- ❷ **BALANCE Control:** Use this control to balance between the volumes of the left and right front speakers or headphones.
- ❸ **SOUND SELECTOR button:** Use the SOUND SELECTOR button to choose between different audio/video sources for picture and sound.
- ❹ **LOUDNESS switch:** Use this switch to turn on or off the loudness function.
- ❺ **DIGITAL IN button:** Press the DIGITAL IN button to change the input mode of an audio signal: digital or analog.
- ❻ **Character Input Buttons:** Use these buttons to assign names to various presettings.
- ❼ **CSRP Control Buttons:** Use these buttons to use the CSRP function.
- ❽ **TAPE 1 MONITOR Switch:** Use this switch to turn on or off the TAPE 1 monitor function.
- ❾ **MC/MM Button:** Use this button to select a phono equalizer gain.
- ❿ **S.E.A Control Buttons:** Use these buttons to operate the S.E.A graphic equalizer.
- ⓫ **Tuner Control Buttons:** Use these buttons to operate the tuner for AM or FM reception.

Remote Controller

The remote controller can be used to control not only the receiver but also other JVC audio and video components. You can also control other manufacturers' audio and video components with this remotecontroller after storing their signals in the remote controller.

Common Controls

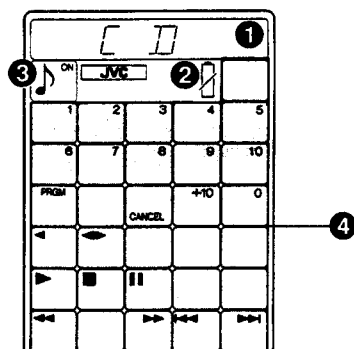
Buttons without descriptions function in the same way as those on the receiver.



Rear side

- ① **Light Button:** While this button is pressed, the touch-panel lights so that you can read the indications in the dark.
- ② **SEND/LEARN Indicator and ERROR Indicator:** These indicators light up or blink to indicate whether you are operating the remote controller correctly.
- ③ **SLEEP Button and CSRP Control Buttons:** Use the SLEEP button to set the sleep timer. These buttons also have other functions. (See page 54.)
- ④ **Power Switches:** Use these buttons to turn on the receiver, TV and VCR or to put them in the standby state.
- ⑤ **Display on/off Switch:** Use this switch to turn on or off the touch-panel. This display is turned off automatically if the remote controller is not operated for about 1 hour.
- ⑥ **Touch-Panel:** Touch this panel to operate the source components and built-in signal processors. (See the next page.)
- ⑦ **Menu Selector Button:** Use this button to select a menu displayed on the touch-panel.
- ⑧ **ON SCREEN Button**
- ⑨ **Source Selector Buttons:** Use these buttons to select an input source and display the menu for operating the selected source on the touch-panel.
- ⑩ **Volume Control Key and Mute Switch**
- ⑪ **Operation Mode Selector Switch:** Switch between operation modes (USE/LEARN) of the remote controller. Select the USE mode to use the remote controller for controlling components. Select the LEARN mode to have the remote controller learn the signals of other manufacturers' remote controllers.

Touch-Panel

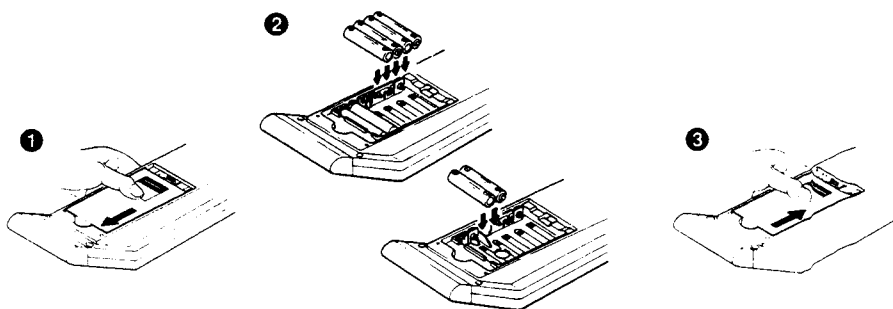


- ❶ **Title:** This is the title of the operation menu displayed on the touch-panel.
- ❷ **Battery indicator:** This indicator indicates that it is time to replace batteries.
- ❸ **Buzzer on/off Key:** Use this key to determine whether the buzzer sound is to be issued when a key or button of the remote controller is pressed.
- ❹ **Operation menu:** This menu displays the operation menu selected using a source selector button or menu selector button. Each box is an operation key.

Inserting Batteries

Insert the six batteries supplied into the remote controller following the procedure below.

- ❶ Slide the battery cover on the back of the remote controller in the direction of the arrow while pressing it.
- ❷ Insert batteries in the remote controller. Make sure that they are oriented with the proper polarity; (+) to (+) and (–) to (–).
- ❸ Slide the battery cover back in the direction of the arrow.



Replacing the Batteries

If the battery indicator appears on the touch-panel, it is time to replace the batteries. Use 24F (AAA) long-life dry cells.

Important! When replacing batteries, set the mode selector switch on the back of the remote controller to the *USE* position.

Notes: Follow the precautions below to avoid leaking or cracking cells.

- Orient batteries with proper polarity; (+) to (+) and (–) to (–).
- Use the correct type of batteries. (Batteries which look similar may differ in voltage.)
- Do not allow more than 3 minutes for battery replacement to preserve stored data.
- Replace all six batteries.
- Do not attempt to heat or burn the batteries.
- If your remote controller is to be left unused for a long time, remove the batteries.

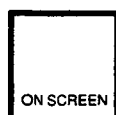
On-Screen Display

The on-screen display feature shows a list of current operating conditions on the screen of the TV connected to the receiver's MONITOR OUT (VIDEO) jack.

This feature allows you to see what the receiver is doing which sound source is playing through the speakers, what mode the signal processor is in, and so on.

Selecting the Display Mode

Display Modes



The following three display modes are available:

- "ON SCREEN ON" Normal mode: The on-screen display is always active.
- "ON SCREEN ON" S.P.I.* mode: The on-screen display is always active. A sound spectrum is displayed.
- "ON SCREEN 5 SEC" mode: The on-screen display is active for five seconds when the display contents are changed by an operation.

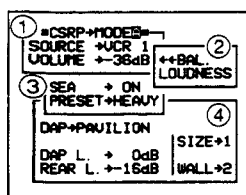
S.P.I. = *Spectro Peak Indicator*

Each time you press the ON SCREEN button, the on-screen mode changes as follows:

"ON SCREEN ON" Normal ► "ON SCREEN ON" S.P.I. ► "ON SCREEN 5 SEC" ► "ON SCREEN OFF" (display on TV goes off) ► Back to the beginning.

Note: In the "ON SCREEN 5 SEC" mode, the display on TV goes off after 5 seconds. However, the "ON SCREEN 5 SEC" mode itself remains active. (If you press the ON SCREEN button, "ON SCREEN 5 SEC" will be displayed on TV.)

Display



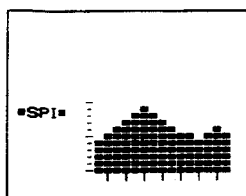
In the "ON SCREEN ON" mode, the screen at left appears on the TV.

Block ①: This block shows the selected source and set volume.

Block ②: This block shows balance and loudness settings.

Block ③: This block shows S.E.A. graphic equalizer settings.

Block ④: This block shows surround processor settings.



In the "ON SCREEN ON" SPI mode, the screen at left appears on the TV.

The horizontal axis shows a frequency which increases rightward.

The vertical axis shows a level.

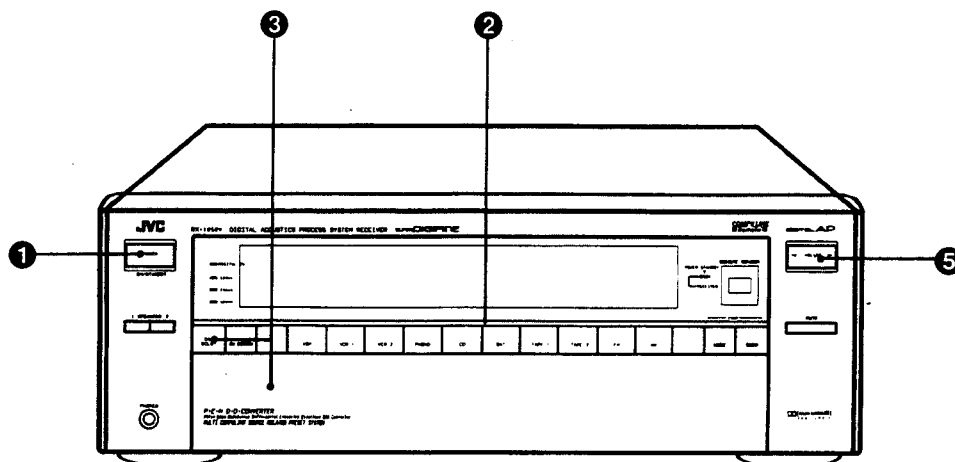
If a video source is being shown on the monitor screen, the on-screen display is superimposed over the image. If not, the on-screen display appears on a blue background.

When the S.E.A. graphic equalizer or surround processor operates, another data is displayed. (For details, see page 27.)

Basic Operation

Important!

- To begin with, press **SPEAKERS** switch 1 or 2 to select the front speakers to listen to.
- Before using the remote controller, make sure that the mode selector switch on the back cover is set to the **USE** position.
- Point the remote controller towards the Remote Sensor on the receiver for operation.



① Turning on the power

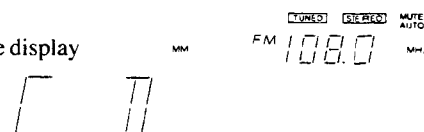
Press the **POWER** switch.
The display window will light up.



② Selecting an audio/video source

See page 23.

Press one of the source selector buttons to choose the audio/video source you want to hear or see.
The selected audio/video source will appear in the display window.



③ Using the built-in Signal processors

See page 27.

Using the built-in signal processors, you can equalize sound or produce a three-dimensional acoustic effect.



④ Operating an audio/video source

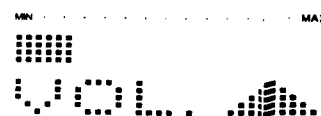
See page 45.

You can operate an audio/video source using your remote controller.

⑤ Controlling the volume

See page 25.

Control the volume using the **VOLUME** control button.



Basic Functions

This chapter explains basic functions such as source selection, volume control, and FM/AM reception.

Contents

Selecting an Audio and Video Source.....	23
• Selecting an Audio/Video Source to Watch or Listen to.....	23
• Selecting an Audio/Video Source to Record from	24
Controlling Volume.....	25
• Volume Control	25
• Selecting the Speakers to Listen to	25
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• Tuning	26
• Selecting an FM Reception Mode.....	26

Selecting an Audio/Video Source

The receiver handles two types of sources, audio sources (compact disc, cassette tape, etc.) that output sound only and video sources (video cassette, video disc, etc.) that output pictures and sound. You can select which source you want to watch, listen to, or record from.

Selecting an Audio/Video Source to Watch or Listen To

Use the following three types of buttons to select a source to watch or listen to.

Source Selector buttons



Press the one of the source selector buttons to select the audio/video source you want to watch or listen to.

The TAPE 2 button is different in function from other source selector buttons. Pressing the TAPE 2 button lights the "TAPE 2 MONITOR" light and allows you to listen to the sound of the cassette deck connected to the TAPE 2 jacks. Pressing the TAPE 2 button again extinguishes the "TAPE 2 MONITOR" light and issues the sound of the previously selected source. For details, see "Monitor Function" on the next page.

Note: When you press the source selector button marked PHONO, make sure that the phono equalizer gain is set according to the type of the cartridge attached to the tone arm. For details, see page 7.

SOUND SELECTOR button



Use the SOUND SELECTOR button to choose different audio/video sources for picture and sound as follows.

- ① Press one of the source selector buttons to choose the desired video source.
- ② Press the SOUND SELECTOR button. The "SOUND SELECTOR" light lights and the currently selected video source name is displayed under it.
- ③ Press one of the source selector buttons to choose the audio source you want to hear sound from. The pictures will be combined with sound from the newly selected audio source.

Note: If you press the SOUND SELECTOR button again, the "SOUND SELECTOR" light will go out, but sound will continue to come from the audio source. To switch back to the video sound, select the same video source again by pressing the appropriate source selector button.

DIGITAL IN button



Use the DIGITAL IN button to change the input mode of an audio signal.

Some source selector buttons are marked in brown. This brown marking denotes that the audio/video source assigned to the button provides both digital and analog audio signals. Each time the DIGITAL IN button is pressed, input alternates between the digital and analog modes. In the digital mode, the DIGITAL IN indicator lights and the built-in D/A converter converts digital input signals to analog signals.

Note: The sampling frequency of the built-in D/A converter is automatically adjusted to suit the digital input signal.

Selecting an Audio/Video Source to Record From

The source being played is automatically selected as the source to record from. When a digital input source is selected, digital signals are output to the DIGITAL jacks marked REC and the analog signals converted by the built-in D/A converter is also output to the AUDIO jacks marked REC.

Important! A component selected as a source using a source selector button cannot be used for recording. When recording sound from the cassette deck connected to the TAPE 2 jacks, check the source name shown on the display window. If the "TAPE 2 MONITOR" light is lit by pressing the TAPE 2 button, settings of other source selector buttons are valid. Source selector buttons other than the "TAPE 2" button must be set to select components which are not used for recording.

Monitor Function

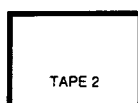
Using the monitor function, you can monitor the sound being recorded. You can use this function while recording sound with the cassette deck connected to the TAPE 1 or TAPE 2 jacks.

During recording, signals input to the cassette deck are also output as they are. If the cassette deck has three heads, the signals read by the playback head can be output during recording. If the sound being recorded can be heard, the conditions of the components in use for recording can be checked concurrently. This is enabled by the monitor function.



TAPE 1 monitor function

Pressing the TAPE 1 monitor button allows you to listen to the sound input to the TAPE 1 jacks irrespective of the source selected using a source selector button. The "TAPE 1 MONITOR" light lights on the display window. Pressing the TAPE 1 MONITOR button again extinguishes the "TAPE 1 MONITOR" light and issues the sound of the source selected using a source selector button.



TAPE 2 monitor function

Pressing the TAPE 2 button allows you to listen to the sound input to the TAPE 2 jacks irrespective of the source selected using another source selector button. The "TAPE 2 MONITOR" light lights on the display window. Pressing the TAPE 2 MONITOR button again extinguishes the "TAPE 2 MONITOR" light and issues the sound of the source selected using another source selector button.

Notes:

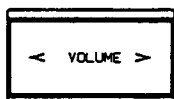
- The TAPE 2 monitor function and TAPE 1 monitor function cannot be used at the same time. The monitor function selected later has priority.
- Signal processors (S.E.A. graphic equalizer and surround processor) are not effective for the sound monitored using the TAPE 1 monitor function.

Controlling Volume

You can listen to the sound of the selected program source at a desired sound level. Using the loudness function, you can hear dynamic sound even at a low sound level.

Volume Control

VOLUME Control Key



The VOLUME control key adjusts the level of sound from the front, center, and rear speakers or headphones. Pressing the right side of the key increases the volume and pressing the left side decreases the volume.

Caution: Listening to an extremely loud sound may cause a hearing defect. Adjust the volume properly. Especially when using headphones, avoid listening to an extremely loud sound.

MUTE Button



Pressing the MUTE button displays "MUTE" on the display window and mutes sound of all speakers or headphones. Pressing the MUTE button again clears "MUTE" and issues sound from all speakers or headphones at the previous sound level.

BALANCE Buttons



These buttons control the sound balance between the front left and right speakers and between the left and right sides of headphones.

Pressing the right button increases the volume of the right speaker or headphone. Pressing the left button increases the volume of the left speaker or headphone.

LOUDNESS Function

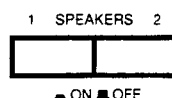


Human ears are hard to hear low and high frequencies at low sound levels. To compensate this hearing characteristic, a loudness function is provided to emphasize low and high frequencies according to the VOLUME control key setting.

Pressing the LOUDNESS button lights the "LOUDNESS" light on the display window and activates the loudness function. Pressing the LOUDNESS button again deactivates the loudness function.

Selecting the Speakers to Listen to

SPEAKER Switches 1 and 2



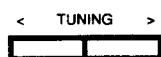
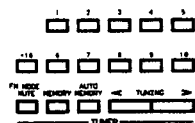
Pressing the SPEAKER switch 1 or 2 each time outputs or stops signals to the FRONT SPEAKERS 1 or 2 terminals on the rear panel alternately. When the SPEAKER switch 1 or 2 is pressed down, signals are output. When it is released, signals stop. Using these switches, select either of two pairs of front speakers.

Listening through Headphones only

To listen to sound only through headphones (without issuing sound from speakers), set both SPEAKERS switches 1 and 2 to OFF.

Important! Make sure that the built-in surround processor is not operating. If it is operating, sound is issued from both or either of rear speakers and center speaker. For details on the surround processor, see page 32.

Tuner



The tuner of the receiver can receive AM and FM broadcasts. To receive the AM/FM broadcast, select either AM or FM broadcast using the AM/FM button and tune in the frequency of a desired station using TUNING buttons.

Tuning

Use TUNING buttons to tune in the frequency of the desired station. Pressing the right button increases the frequency and pressing the left button decreases the frequency. Tapping the TUNING button each time changes the frequency in steps of 10 kHz for AM and 0.1 MHz for FM. There are two tuning modes:

Automatic Tuning: If you do not know the frequency of a desired station, select this mode. Pressing the TUNING button continuously starts changing the frequency quickly. If the TUNING button is released, the frequency continues to change and stops at the frequency of the first tuned station.

Manual Tuning: If you know the frequency of a desired station, select this mode. Pressing the TUNING button continuously starts changing the frequency quickly. Release the TUNING button near the desired station and tap it repeatedly up to the frequency of the desired station precisely.

When a station is tuned to, the “TUNED” light lights on the display window.

Once a tuned frequency is preset, it can be directly called using numeric buttons. For details, see page 37.

Note: In the automatic tuning mode, weak waves of stations are ignored. To pick up even weak waves, select the manual tuning mode.

Important! If the receiver is turned to a station but the “TUNED” light does not lights, try adjusting the antenna for better reception.

Selecting an FM Reception Mode



There are two FM reception modes. Pressing the FM MODE-MUTE switch switches between these modes.

Auto selection mode: The “MUTE-AUTO” light lights on the display window. You can hear stereo sound when a stereo broadcast is received and you can hear monaural sound when a monaural broadcast is received. During reception of a stereo broadcast, the “STEREO” light lights. In the auto selection mode, the muting function is activated to suppress noise between stations.

Monaural mode: The “MUTE-AUTO” light goes off. You can hear only monaural sound if a stereo broadcast is received. When stereo broadcast sound is noisy because of a weak signal, select this mode to listen to noiseless monaural sound.

Note: In the auto selection mode, sound of a broadcast with a weak signal may be muted. In this case, select a monaural mode.

Signal Processor

This chapter explains two signal processors, S.E.A. graphic equalizer and surround processor, which are incorporated in the RX-1050VTN.

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• Hints for Equalizing	30
• Preset Equalizing Patterns	31
• Recording the Sound Processed by S.E.A. Equalizer	31
Surround Processor	32
• Selecting a Program	32
• Selecting a Center Channel Mode	33
• Adjusting a Surround Sound Effect	34
• Modifying Acoustics	35



* Manufactured under license from Dolby Laboratories Licensing Corporation. Additionally licensed under one or more of the following patents: U.S. Numbers 3,632,886, 3,746,792 and 3,959,590; Canadian Numbers 1,004,603 and 1,037,877.

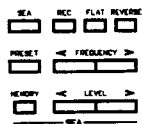
"Dolby" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

Outline

Signal Processor Types

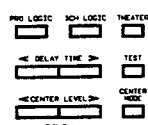
This receiver incorporates two signal processors.

• S.E.A. Graphic Equalizer



Press the SEA button to listen to the sound processed by the S.E.A graphic equalizer. Using the S.E.A. graphic equalizer, you can make a desired tone or compensate sound deterioration caused by the conditions of playback components and listening room. The S.E.A graphic equalizer is effective only for front speakers.

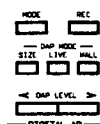
• Surround Processor



Press the DAP DOLBY button to listen to the sound processed by the surround processor. The surround processor provides two groups of programs for a total of 9 sound effects.

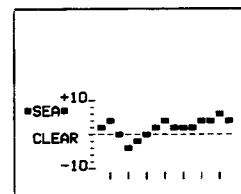
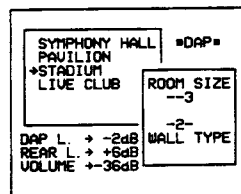
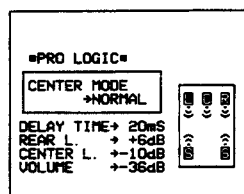
Surround sound effects group: The programs in this group replicate the sound experienced in a movie theater. The front speakers, center speakers, and rear speakers are used to produce this effect.

Digital Acoustics Processor (DAP) group: The programs in this group reproduce the acoustics of a concert venue. The front speakers and rear speakers are used to produce this acoustic effect.



On-Screen Display

When the S.E.A. graphic equalizer or surround processor is operated, the on-screen display shows the following:

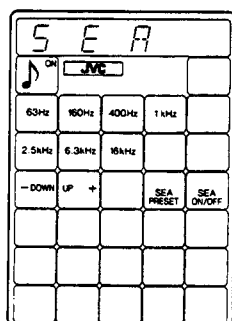


L,R: Front Speakers
C: Center Speaker
S: Rear Speakers
Active speakers are marked with .

To return to the original display, use the ON SCREEN button to change the display mode.

Operating Signal Processors Using the Remote Controller

Pressing a menu selection button (SEA or DAP DOLBY) on the remote controller displays the corresponding menu on the touch-panel.



Pressing the SEA button on the remote controller displays the menu shown at the left.

63 Hz – 16 kHz:

Select the frequency zone to be equalized.

–DOWN, UP+:

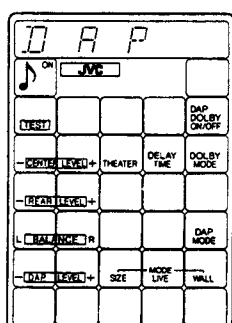
Set the level of boosting or cutting.

SEA PRSET:

Select a preset equalizing pattern.

SEA ON/OFF:

Turn on/off the S.E.A. graphic equalizer.



Pressing the DAP DOLBY button on the remote controller displays the menu shown at the left.

TEST:

Turn on/off the test tone used to adjust center and rear channel levels.

DAP DOLBY ON/OFF: Turn on/off the surround processor.

DOLBY MODE:

Switch between "PRO LOGIC" and "3CH LOGIC" programs.

THEATER:

Select a program among "THEATER 1" to "THEATER 4"

DELAY TIME:

Set the delay time.

DAP MODE:

Select a program in the digital surround processor group.

SIZE, LIVE, WALL:

Adjust the parameters for modifying acoustics.

CENTER LEVEL:

Set the center channel level.

REAR LEVEL:

Set the rear channel level.

BALANCE:

Adjust the balance between left and right front channels

DAP LEVEL:

Adjust the level of the sound effect of the program in the digital surround processor group.

Using Signal Processors for Recording

The effect of the S.E.A. graphic equalizer can be reflected in recording by pressing the REC button in the SEA section.

The surround processor program in the digital acoustics processor group can be reflected in recording by pressing the REC button in the DIGITAL AP section.

The above REC buttons can be turned on/off separately. However, when both the S.E.A. graphic equalizer and a program in the digital acoustics processor group are used, these REC buttons are turned on or off simultaneously; the effect of either the S.E.A. graphic equalizer or a program in the digital acoustics processor group cannot be reflected in recording.

When a program in the surround sound effect group is used, the above two REC buttons are not effective.

Note: The cassette deck connected to the TAPE 2 jack cannot record the sound processed by the signal processor.

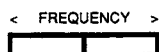
S.E.A. Graphic Equalizer

Press the SEA button to listen to the sound processed by the S.E.A. graphic equalizer.

Equalizing

To equalize sound using the S.E.A graphic equalizer, you must set the frequency zones to be equalized and the levels of boosting and cutting as described below. You can make a desired tone by setting boosting and cutting level for seven frequency zones.

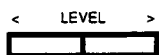
Selecting a Frequency Zone



To select a frequency zone to be equalized, use FREQUENCY buttons.

Center frequencies of frequency zones are: 63 Hz, 160 Hz, 400 Hz, 1 kHz, 2.5 kHz, 6.3 kHz, and 16 kHz. Pressing the right button switches to a higher frequency zone and pressing the left button switches to a lower frequency zone.

Setting a Level



Set the boosting or cutting level for the selected frequency zone. To set a level, use LEVEL buttons. Pressing the right button raises the level and pressing the left button lowers the level. You can set a level in 2 dB units within the range of + 10 dB.

Hints for Equalizing

Equalizing after Resetting All Levels



If you press the FLAT button, you can reset the levels set for all frequency zones to 0 dB. Use this button to equalize sound from the beginning.

Comparing the Sound Processed by the S.E.A. Equalizer with the Original Sound



To compare the sound processed by the S.E.A equalizer with the original sound during equalizing, press the SEA button. Pressing the SEA button again allows you to hear the equalized sound.

Frequency Zones and Effect of Boosting/Cutting

The following illustration shows the relationships between frequency zones and effect of boosting/cutting. Refer to it when equalizing sound.

Frequency (Hz)	20	50	100	200	500	1k	2k	5k	10k	20k
When boosted -----	Heavy sound	Massive sound	Sharp sound	Cool sound						
When cut -----	Light sound	Diminutive sound	Soft sound	Warm sound						

Preset Equalizing Patterns

You can select any one of ten preset equalizing patterns.

Selecting a Preset Equalizing Pattern



Preset equalizing patterns are assigned letters A to J. Pressing the PRESET button selects and displays the next letter, title, and equalizing pattern on the display window.

Features of Equalizing Patterns

Letters A to E are not assigned to any equalizing patterns. You can assign letters A to E to your desired equalizing patterns. F to J are factory-assigned to typical equalizing patterns. You cannot change these equalizing patterns.

F: The title is "HEAVY". Select this pattern if you want heavy sound. Both high and low frequencies are boosted.

G: The title is "CLEAR". Select this pattern if you want clear sound. Frequencies making sound unclear are cut.

H: The title is "SOFT". Select this pattern if you listen to BGM at a low sound level. Rasping sound is suppressed and low frequencies are boosted.

I: The title is "MOVIE". Select this pattern to listen to the sound track of old movies. The sound in the narrow frequency range can be equalized.

J: The title is "VOCAL". Select this pattern to put singer's voice forward. Presence of human voice increases.

Recording the Sound Processed by S.E.A. Equalizer



The "REC" light goes on or off each time the REC button is pressed. When this light is lit, you can record the sound processed by the S.E.A. equalizer. For details, see page 29.

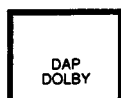
Note: The cassette deck connected to the TAPE 2 jack cannot record the sound processed by the signal processor.

Using the S.E.A Equalizer as a Noise Reduction System



Pressing the REVERSE button reverses the equalization characteristic with reference to 0 dB. You can reduce tape noise by boosting high frequencies during recording and cutting them by pressing the REVERSE button before playback.

Surround Processor



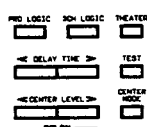
The built-in surround processor enables you to enjoy the 3-dimensional effect experienced in movie theaters and the acoustics of concert hall in your own home.

To obtain the effect of the surround processor, press the DAP DOLBY button.

Selecting a Program

The surround processor provides two groups of programs.

Surround sound effects group



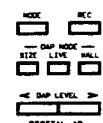
Press the desired program button

PRO LOGIC: Select this program when you play a source marked DOLBY SURROUND

3CH LOGIC: Select this program when you play a source marked DOLBY SURROUND and rear speakers are not available.

THEATER: Select this program to play a source marked DOLBY SURROUND with its sound spreading wider and deeper behind you. Feel of depth increases in four steps at each press of the button.

Digital Acoustics Processor group



The programs in the digital acoustics processor (DAP) group bring you the effect of a live performance, as in a concert hall, when for example, listening to audio sources.

Press the MODE button on the receiver to select one of the six programs. Each time you press the button, the program changes as follows.

“SYMPHONY HALL” (SYMPHONY) ► “PAVILION” ► “STADIUM” ► “LIVE CLUB” ► “CHURCH” ► “OPERA HOUSE” ► back to the beginning

“SYMPHONY HALL”: A shoe-box type hall accommodating an audience of 2,200 in the Netherlands. This type of hall features fine acoustics.

“PAVILION”: An octagonal pavilion with a high ceiling in Japan.

“STADIUM”: A stadium accommodating about 30,000 people. Such stadiums are used for football and ball games as well as rock concerts.

“LIVE CLUB”: A club for live music with a low ceiling in Japan. Such clubs are often used for jazz performances.

“CHURCH”: A cathedral with a 40-meter-high ceiling in Germany. This cathedral has the special acoustics peculiar to stone buildings.

“OPERA HOUSE”: This hall is in Austria. It has a high roof and many layers of seats.

Note: The effect of a program in the digital acoustics processor group can be reflected in recording. For details, see page 29.

Selecting a Center Channel Mode



Each program in the surround sound effects group has two or three center channel modes. When you select a program, you must also select a center mode.

Note: The programs in the digital acoustics processor group do not have a center mode.

Set the center channel mode for each program using the CENTER MODE button. The following center channel modes are available:

“WIDE”: Use this mode when the center speaker is as large as the front speaker. The whole of the center channel signal is reproduced through the center speakers.

“NORMAL”: Use this mode when the center speaker is smaller than the front speaker. The bass frequencies in the center channel signal are reproduced through the front speakers.

“PHANTOM”: Use this mode when no center speaker is used. The whole of the center channel signal is reproduced through the front speakers.

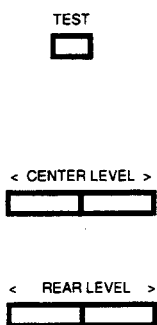
Each time you press the CENTER MODE button, the center channel mode changes as follows.

“WIDE” ► “NORMAL” ► “PHANTOM” ► “CENTER OFF” (A center channel signal is not output.) ► back to the beginning.

Adjusting the Surround Sound Effect

Each program in the surround sound effect group requires adjustments to product the maximum surround sound effect. Make adjustments for each program as follows:

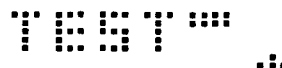
center channel level and rear channel level



Make the adjustments from the listening position using the remote controller.

- ① Press the TEST button.

The test tone will be heard moving clockwise from speaker to speaker.



- ② Adjust the center channel level using CENTER LEVEL buttons and adjust the rear channel level using the REAR LEVEL buttons.

You can adjust these levels in 2 dB units within the range of + 20 dB.



Adjust these levels so that sound levels of left and right speakers become the same.

- ③ Press the TEST button .

The test tone will cease.

Notes:

- If PHANTOM is selected for a program as the center channel mode, the center channel level need not be adjusted.
- If the "3CH LOGIC" program is selected from the surround sound effect group, the REAR LEVEL button is disabled.
- The same rear channel level can be set for all surround processor programs.

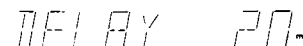
Delay Time



Set delay time using DELAY TIME buttons. For "PRO LOGIC", delay time can be set in 1 ms units within the range from 15 ms to 30 ms. For "THEATER", it can be set in 2 ms units within the range from 0 ms to 30 ms.

Set delay time according to the relationship between the distance from the listening position to main speakers and the distance from the listening position to surround speakers.

If the distance to surround speakers is farther than the distance to main speakers, set delay time to about 15 ms.
If the distance to surround speakers is almost equal to the distance to main speakers, set delay time to about 20 ms.
If the distance to surround speakers is shorter than the distance to main speakers, set delay time to about 25 ms.



Modifying Acoustics

The programs in the DAP group have adjustable parameters, enabling you to modify the preset acoustics.

Since parameter settings are stored for each program, the latest parameter settings are called each time the program is selected. Adjustable parameters are classified into two types.

Changing the Structure of the Concert Hall to be Simulated



You can change the structure of the concert hall to be simulated by changing the following parameters using SIZE, LIVE, and WALL buttons. Pressing one of these buttons will display the corresponding parameter name on the displayed window.

“ROOM SIZE”: You can change the size of the hall to be simulated. Pressing the SIZE button changes the parameter value within the range from 1 to 5 (standard value=3).

As the parameter value increases, the hall size becomes larger.

“LIVENESS”: You can change the acoustic depth of the hall to be simulated. Pressing the LIVE button changes the parameter value within the range from 1 to 5 (standard value=3).

As the parameter value increases, the acoustic depth increases and reverberation lasts longer.

“WALL TYPE”: You can change the hardness of the wall of the hall to be simulated. Pressing the WALL button changes the parameter value within the range from 1 to 3 (standard value=2).

As the parameter value increases, the wall become harder.

Changing the Sound Effect



Using DAP LEVEL buttons, you can adjust the level of the sound which is processed by the digital acoustic processor to be mixed with the source sound.

Pressing the right button increase the level of the sound processed by the digital acoustic processor and pressing the left button decreases it.

The level adjusted in units of 2 dB is displayed on the display window. The maximum level is +6 dB and the minimum level is -16 dB. Setting the level to “- - dB” produces no effect of the digital acoustic processor.

Preset Functions

This chapter explains how to preset tuned frequencies and equalizing patterns and the functions of the sleep timer.

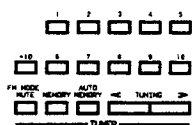
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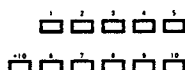
How to Preset

Once you preset turned radio stations and equalizing patterns of the S.E.A. graphic equalizer, you can easily call them later.

Presetting Tuned Frequencies



How to Use Numeric keys



You can preset up to 40 tuned radio stations and you can assign channel number 1-40 to these stations. Once a station has been preset, you can tune to that station simply by specifying its channel number using numeric keys.

Two presetting methods are explained below.

To indicate numbers 1 to 10, press the appropriate key. To indicate numbers 11 to 40, you need to use the +10 key and one other key. See the following examples:

To indicate 17: press the +10 key, then the 7 key.

To indicate 20: press the +10 key, then the 10 key.

To indicate 25: press the +10 key twice, then the 5 key.

To indicate 40: press the +10 key three times, then the 10 key.

DOWN, UP: Change the channel number up or down.

Manual Presetting

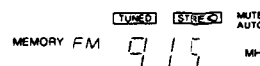


You can preset the station you are listening to now as follows:

- For the method of tuning to a station, see page 26.

- Press the MEMORY button.

The "MEMORY" light lights on the display window.



- Using numeric keys, enter a number (1-40). This number is the channel number used to call the tuned station later.

Important! You must enter the channel number while the "MEMORY" light is on. If this light goes off before entering the channel number, press the MEMORY button again.

When the "MEMORY" light goes off and the channel number is displayed, presetting is completed.



Automatic Presetting

Frequencies are scanned in the ascending order to preset tuned stations automatically. The operational procedure for automatic presetting is as follows:

- ① Press a source selector button "AM" or "FM".
- ② Specify the scan start frequency using TUNING buttons.
- ③ Press the AUTO MEMORY button.

The "AUTO MEMORY" light lights in the display window.



- ④ Using numeric keys, enter the channel number to which the first tuned station is assigned. Tuned stations are assigned channel numbers beginning with the channel number entered here (in the ascending order).

Important! You must enter the channel number while the "MEMORY" light is on. If this light goes off before entering the channel number, press the AUTO MEMORY button again.

Frequencies are scanned in the ascending order. When a frequency of a station is tuned in, scanning stops and the "TUNED" light lights. This station is preset about 4 seconds later and the "MEMORY" light lights up.



- If you do not want to preset this frequency, press the AUTO MEMORY button before the "MEMORY" light lights. Scanning restarts without presetting the turned frequency.

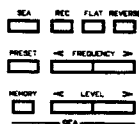
Scanning restarts.

Scanning continues until another frequency is tuned in, the upper limit of the tuning range is reached, or all 40 channel numbers have been assigned to turned stations.

When auto presetting is completed, the last preset station is received.

Note: You can assign a title (e.g., station name) to each preset station with five or fewer characters. When a preset station is called, its title is displayed on the display window along with its channel number. See page 42.

Presetting Equalizing Patterns



You can preset up to five equalizing patterns of the S.E.A. graphic equalizer. Each equalizing pattern is assigned a letter (A to E). Once an equalizing pattern has been preset, you can call it directly using the PRESET button.

The operational procedure for presetting equalizing patterns is as follows:

- ① Press the SEA button to operate the S.E.A. graphic equalizer.

The "SEA" light goes on.

- ② Using FREQUENCY and LEVEL buttons, create your desired equalizing pattern.

- ③ Press the MEMORY button.

The "MEMORY" light blinks.

- ④ Press the PRESET button to select the letter to be assigned to the created equalizing pattern.

Pressing the PRESET button repeatedly selects letters in the following order:

A ► B ► C ► D ► E ► Back to the beginning

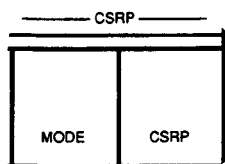
- ⑤ Press the MEMORY button again.

The "MEMORY" light goes off to indicate that equalizing pattern presetting has been completed.



Note: You can assign a title to each preset equalizing pattern with five or fewer characters. When a preset equalizing pattern is called, its title is displayed on the display window along with its assigned letter. See page 42.

Multi-CSRP Function



Outline

You can assign and store a sound level, tone, and other settings for each source selector button.

What is Multi-CSRP Function?

The optimum settings of a sound level and tone depend on the source component conditions (for example, the cassette deck cannot reproduce high frequencies as compared with the CD player) and the source contents (for example, movie sound track and on-the-spot broadcasting of football). Accordingly, you must change settings each time you select a different source. The JVC CSRP (Compu-link Source Related Presetting) function is used to assign and store different settings for different source selector buttons. Since the preset settings are called automatically each time you select a different source, you need not make the settings again. The RX-1050VTN is provided with a multi-CSRP function, an enhanced version of the CSRP function.

With the multi-CSRP function, you can assign three types of settings (modes A to C) for each source selector button.

Note: For source selector buttons "AM" and "FM", different settings can be stored for different preset channels.

Important! For the source selector button "TAPE 2", the multi-CSRP function is not effective.

Settings Assigned to Each Source Selector Button

The following settings can be assigned to each source selector button in advance:

- Input mode (digital/analog)
- Volume
- Balance
- Loudness function
- S.E.A equalizing pattern
- Surround processor program and various parameters

Note: The CSRP function allows you to preset the same surround processors with different parameters.

Demonstration



Pressing the TEST button displays the settings previously assigned to three CSRP modes of each source selector buttons sequentially. This display is made repeatedly. While these settings are displayed, the "CSRP" light blinks. To stop this display, press the TEST button again.

Important! During demonstration, sound signals are not output to any speaker terminal and headphone jack.

Using the Multi-CSRP Function

To use the multi-CSRP function, press the CSRP button. The multi-CSRP function is selected and canceled alternately each time the CSRP button is pressed. When the multi-CSRP function is selected, "CSRP" lights on the display window.

Operation



When the multi-CSRP function is selected, the settings previously assigned to the current source are called. The settings are displayed one by one while the "CSRP" lamp is blinking. Then the "CSRP" light lights up.

After this, previously assigned settings are called and displayed each time a different source is selected.

Selecting a Mode



To select a mode, press the MODE button. Pressing the MODE button selects another mode.

Note: If another source is selected, the current preset mode does not change until it is changed by pressing the MODE button.

How to Preset



- ① Press the MEMORY button.

The "MEMORY" light blinks on the display window. While this light is blinking for five seconds, start executing the following operations.



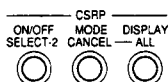
- ② Press the MODE button to select a preset mode.



- ③ Press the MEMORY button again.

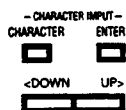
The current receiver settings are assigned to the selected mode and displayed one by one. While they are displayed, the "MEMORY" light blinks quickly.

Confirming the Settings Assigned to the Current Source



Pressing the CSRP DISPLAY button on the remote controller will display the settings previously assigned to the current source one by one on the display window.

Assigning a Title



You can assign a title to a preset channel of the tuner, preset equalizing pattern of the S.E.A. graphic equalizer, and CSR mode of the multi-CSR mode function with five or fewer characters. When each setting is called, its title is displayed on the display window.

Preset Data to which a Title can be Assigned

A title can be assigned to the following preset data:

- Preset channels of tuner (CH-1 to CH-40)
- Preset equalizing patterns of S.E.A. equalizer (A to E)
- CSR modes of multi-CSR mode function (A to C)

How to Assign a Title

Assign a title as follows:

Preparation

Before assigning a title, call the data to which a title is to be assigned.

- Assigning a title to a preset channel of the tuner
Using numeric keys, select a preset channel (1-40).

Important! When a preset channel is selected, its channel number is displayed, the volume setting is displayed temporarily, then the channel number is displayed again. After the channel number is displayed again, enter title characters.

- Assigning a title to a preset equalizing pattern of the S.E.A. graphic equalizer
Using the PRESET button, select a preset equalizing pattern (A to E).

Important! When a preset equalizing pattern is selected, temporary titles "SEA-A" to "SEA-E" are displayed for five seconds. While these titles are displayed, start entering title characters. If they disappear, press the PRESET button again.

- Assigning a title to a CSR mode (A to C) of the multi-CSR mode function
First press the MEMORY button. Next, press the MODE button to select a CSR mode (A to C).

Important! When the MEMORY button is pressed, the "MEMORY" light blinks for five seconds. While the "MEMORY" light is blinking, start entering title characters. If the "MEMORY" light disappears, press the MEMORY button again.

Entering Title Characters

After completion of preparation, enter title characters as follows:



- ① Press the CHARACTER button.

The cursor appears at the first character position. —

If a title was assigned previously, the first character blinks. If you need not change this character, press the CHARACTER button.



- ② Using DOWN and UP buttons, select the character to be entered.

You can enter the characters shown below.

Pressing the DOWN or UP button selects the next character as shown below.



- ③ When a desired character appears, press the CHARACTER button.

The cursor moves to the next character position.



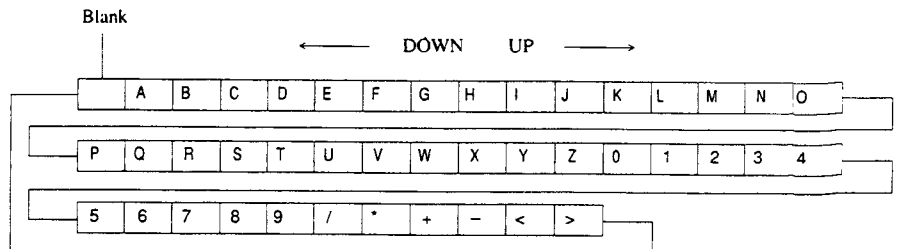
- ④ You can enter up to five characters by repeating the above steps 2 and 3. Pressing the CHARACTER button after entering the fifth character blinks the first character.



- ⑤ Press the ENTER button to save the entered characters.

Selecting Characters

Pressing the UP or DOWN button selects the next character in the following order:



Sleep Timer Function



The sleep timer function sets the receiver in the standby mode after the specified time lapse. To use the sleep timer function, operate the remote controller as follows:

- ① Press the SLEEP button on the remote controller.

“SLEEP OFF” appears.

Important! While “SLEEP OFF” is displayed for 5 seconds, go to the next step.

SLEEP OFF

- ② Pressing the SLEEP button again sets the timer.

Pressing the SLEEP button each time increase the set time. You can set up to 80 minutes in steps of 10 minutes.

.... 10

- ③ The set time disappears a while later.

The receiver is automatically put in the standby mode after the specified time lapse.

Note: After setting the sleep timer, you can check the remaining time in minutes by pressing the SLEEP button. You can prolong the set time by pressing the SLEEP button again.

Operating Audio and Video Sources

The remote controller supplied with this receiver enables you to control the audio and video sources connected to the receiver as well as the receiver itself.

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Operating Other Manufacturers' Audio/Video Components	52
• Switches and Buttons that can Learn.....	52
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Important! Press touch-panel keys securely and accurately. Especially the keys to which signals of other manufacturers' remote controllers are assigned must be pressed securely.

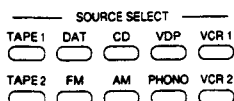
Operating JVC Audio/Video Components

You can control JVC audio/video components with the remote controller using the preset signals. A menu has preset signals for other JVC components if "JVC" is displayed under the menu title.

Selecting a Menu

You can use a source selector button on the remote controller or a menu selector button to select a menu.

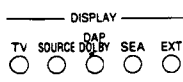
Selecting a Menu Using a Source Selector Button



When a source is selected using a source selector button, the menu for operating the selected source is displayed on the touch-panel.

Note: When the source selector button "TAPE 2" is pressed, tape deck 2 is selected but the menu on the touch-panel does not change.

Selecting a Menu Using a Menu Selector Button



When menu selector button SOURCE is pressed, the menu for operating audio/video source recording components (TAPE 1, DAT, VCR 1, and VCR 2) can be displayed without changing the settings of source selector buttons. Thus, you can record an audio/video source program while monitoring the sound of the source selected using the source selector button.

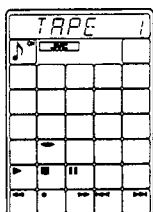
Pressing the SOURCE button each time will select another menu in the following order:

"TAPE 1" ► "DAT" ► "VCR 1" ► "VCR 2" ► Back to the beginning

Menus for Operating Audio Components

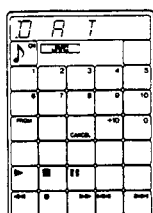
There are five menus for operating audio components: TAPE 1, DAT, CD, CHANGER, and PHONO.

TAPE 1



- ◀▶: Press to change the direction of play.
- ▶: Play
- : Stop
- ||: Pause
- ◀◀: Rewind
- : Record (together with ▶)
- ▶▶: Fast forward
- ◀◀: Music scan (Backward)
- ▶▶: Music scan (Forward)

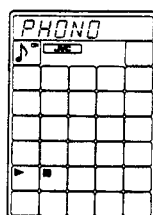
DAT



DAT indicates the menu for operating the DAT deck.

- 1-10, +10, 0: Specify a program number.
- PRGM: Press for programmed play.
- CANCEL: Delete the program.
- ▶: Play
- : Stop
- ||: Pause
- ◀◀: Rewind
- : Record (together with ▶)
- ▶▶: Fast forward
- ◀◀: Backward search
- ▶▶: Forward search

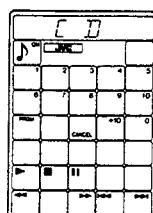
Turn table



PHONO indicates the menu for operating the turntable.

- : Play
- : Stop

CD player



CD indicates the menu for operating the CD player.

- 1-10, +10, 0: Specify a track number.
- PRGM: Press for programmed play.
- CANCEL: Delete the program.
- : Play
- : Stop
- || : Pause
- ◀◀ : Fast backward
- ▶▶ : Fast forward
- ◀◀◀ : Backward search
- ▶▶▶ : Forward search

CD automatic changer



When the source selector button "CD" is pressed, the CHANGER menu is displayed in addition to the CD menu mentioned above. If your CD has an automatic changer feature, the "CHANGER" menu is used to perform the operations peculiar to the CD player with CD changer feature.

- 1-10, +10, 0: Specify a track number.
- PRGM, CONTINUE, MAG.PRGM: Select a play mode.
- 1-6, P: Specify a disk number.
- : Play
- : Stop
- || : Pause
- ◀◀ : Rewind
- ▶▶ : Fast forward
- ◀◀◀ : Backward search
- ▶▶▶ : Forward search

To call the CHANGER menu, execute the following operations:

- ① Set the operation mode selector switch to the LEARN position.
- ② Press the menu selector button "SOURCE" repeatedly until the title "CHANGER" appears. Pressing the SOURCE button each time will select another menu in the following order:
"CD" ► "CHANGER" ► "TAPE 1" ► "DAT" ► "VCR 1" ► "VCR 2" ► Back to the beginning
- ③ When the title "CHANGER" appears, set the mode selector button to the USE position.

After this, the above menu is displayed each time the source selector button "CD" is pressed.

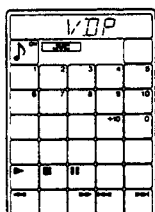
Note: To display the CD menu, press the mode selector switch to the LEARN position, press the CD source button, then set the mode selector switch to the USE position.

Menu for Operating Video Components

There are four menus for operating video components: VDP, VCR 1, VCR 2, and TV.

Note: Source selector buttons "VDP", "VCR 1", and "VCR 2" on the remote controller also have the function to switch the TV's input mode (TV or VIDEO) to VIDEO.

VDP

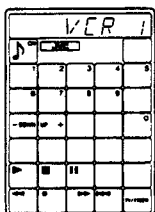


VDP indicates the menu for operating the video disk player.

- 1-10, +10, 0: Specify a chapter number.
- ▶: Play
- : Stop
- ||: Pause

- ◀◀: Rewind
- ▶▶: Fast forward
- ◀◀: Reverse chapter feed
- ▶▶: Forward chapter feed

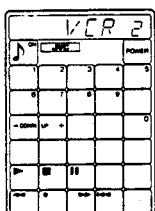
VCR 1



VCR 1 indicates the menu for operating the VCR.

- 1-9, 0: Specify a TV channel.
- DOWN, UP: Change the TV channel up or down.
- ▶: Play
- : Stop
- ||: Pause/Still
- ◀◀: Rewind
- : Record (together with ▶)
- ▶▶: Fast forward
- TV/VIDEO: Switch between input modes.

VCR 2

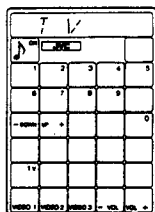


VCR 2 indicates the menu for operating the VCR.

- POWER: Turn on/off the VCR.
- 1-9, 0: Specify a TV channel.
- DOWN, UP: Change the TV channel up or down.
- ▶: Play
- : Stop
- ||: Pause/Still
- ◀◀: Rewind
- : Record (together with ▶)
- ▶▶: Fast-Forward
- TV/VIDEO: Switch between input modes.

Note: Some JVC VCRs have two types of remote control codes. VCR 1 corresponds to remote control code A and VCR2 corresponds to remote control code B. If the VCRs connected to the VCR 1 and VCR 2 jacks are set using different codes, they can be controlled separately using the remote controller.

TV

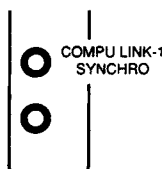


Pressing the menu selector button "TV" displays the following menu on the touch-panel.

- 1-9, 0 : Specify a TV channel.
- TV, VIDEO 1-3 : Switch between input modes.
- DOWN, UP : Change the TV channel up or down.
- VOL +, - : Adjust the TV receiver volume.

Note: The menu selector button "TV" has the function to set the TV input mode (TV or VIDEO) to TV in addition to the above function.

COMPU LINK Remote Control System



COMPU LINK Remote Control System

The COMPU LINK Remote Control System automatically interlocks your audio components for simple operation. Connecting the COMPU LINK SYNCHRO-1 jacks on the back of the receiver to the audio components will enable you to use the three functions below.

Note: Your CD player should be connected to both the DIGITAL jack on the back of the receiver and also the AUDIO (analog) jacks.

Equipment Remote Control

Even if a component has no remote control signal sensor, you can control it via the REMOTE SENSOR on the receiver using the receiver's remote controller. For details, see page 46.

Note: Direct the remote controller at the REMOTE SENSOR on the receiver.

Automatic Source Selection

When a component is put in the play state, the corresponding source selector button on the receiver is automatically activated. On the contrary, when one of the source selector button is pressed, the corresponding component automatically begins to play. The component previously playing stops after 5 seconds.

Note: The source selector button TAPE 2 is excluded from the automatic source selection feature.

Synchronized Recording

As soon as a compact disc or record is set to play, the tape deck starts recording. To use this feature, follow the procedure below.

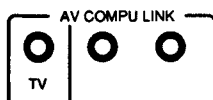
- ① Put a tape in the deck and a disc in the CD player or turntable.
- ② Simultaneously press the REC and PAUSE button on the tape deck to put it in the REC/PAUSE state.
Press the REC button and PAUSE button together, or the synchronized recording feature will not operate.
- ③ Press the PLAY button on the CD player or turntable.
As soon as the disc starts playing, the tape deck starts recording. When the disc ends, the tape deck switches from the REC/PLAY mode to the REC/PAUSE mode, and stops four seconds later.

Notes:

- While synchronized recording is active, the source selector button CD or PHONO is activated; other source selector buttons are disabled to prevent recording failure.
- If your CD player is operated in the PROGRAM mode, a 4-second mute is recorded between tracks to enable the music scan feature of your tape deck to work.
- If the power for any connected equipment is shut off during synchronized recording, the system will not operate properly. In this case, you must start all over again.

AV COMPU LINK

AV COMPU LINK system



The AV COMPU LINK system automatically interlocks the receiver with video components to enable simpler operation. Connecting the AV COMPU LINK jacks on the rear of the receiver to your video components will enable you to do the following:

- Play a video cassette with a one-touch operation
- Automatically turn on/off the VCR and TV.
- Automatically select the TV input mode

see the following pages for the details of these functions.

Important!

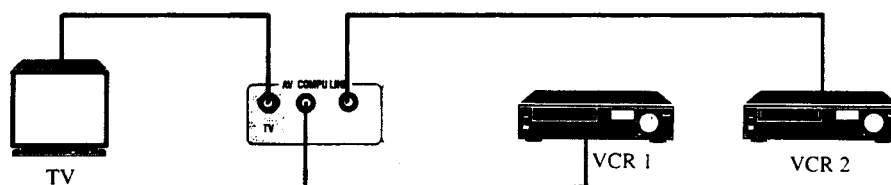
- When operating the TV by remote control, point the remote control unit at the REMOTE SENSOR of the amplifier. When a remote cable is connected to the AV COMPU LINK jack of the TV, The Remote Control Sensor of the TV is disabled.
- When operating the VCR by remote control, point the remote control unit directly at the VCR.

Connections

For connection, use the shielded audio cable with monaural mini plug (3.5 m m ø) equivalent to the remote cable for COMPU LINK Remote Control System.

There are three AV COMPU LINK jacks. To connect a TV receiver, use the jack marked "TV". To connect a VCR, use either of the remaining two jacks.

After connecting your VCRs to the AV COMPU LINK jacks, set their remote control codes (A/B) before trying to operate them. set the VCR connected to the VCR 1 jacks to remote control code A and a VCR connected to the VCR 2 jacks to B. Refer to the VCR user's manual for details of how to set the remote control code.



Notes:

- The AV COMPU LINK jacks output control signals for the VCR and TV only. The VCRs and TV must also be connected to the AUDIO, VIDEO, and a S-VIDEO jacks, through which picture and sound signals are transmitted.
- Make connections to the AV COMPU LINK jacks, not the COMPU LINK-1 SYNCHRO jacks.
- Some VCRs use the same jack for both AV COMPU LINK and SWAP editing. However, the jack cannot be used for both purposes simultaneously. Use it either for AV COMPU LINK or SWAP editing.

One-touch Video Play

When a video cassette with its safety tab removed is loaded into the VCR, the following actions take place automatically and playing starts.

- The receiver, VCR, and TV are powered up.
- The TV/VIDEO input selector switch is set to VIDEO.
- The corresponding Source Selector button is activated.
- The VCR starts playing.

Note: If the video cassette still has its safety tab, you must press the play button on the VCR to start operation after the power comes on.

Turning on or Putting the VCR and TV in Standby State Automatically

The VCR and TV are automatically turned on or put in the standby state together with the receiver.

When the receiver is turned on, whether the VCR and TV are turned on depends on the selected source type.

- When VCR1 or VCR2 is selected as a source, the VCR and TV are turned on together with the receiver.
- When any other source is selected, the VCR and TV are not turned on together with the receiver.

When the receiver is put in the standby mode, the VCR and TV are also put in the standby state.

Note: If the receiver is put in the standby state, the VCR in the REC mode is not turned off.

Setting the TV Input Mode Automatically

When the receiver is turned on or sources are switched, the TV input mode (TV or VIDEO) is automatically changed to "VIDEO" to allow you to see the picture of the video source selected on the receiver or the on-screen data.

When both S-VIDEO IN and VIDEO jacks on the back of the TV are connected to the receiver, the jack used to receive signals is selected according to the selected source type.

- If the selected video source is connected to the receiver's S-VIDEO jack, the TV will receive the picture signal from the S-VIDEO IN jack.
- When the selected video source is not connected to the S-VIDEO jack, the TV will receive the picture signal from the VIDEO jack.

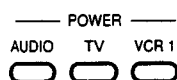
Operating Other Manufacturers' Audio/Video Components

The remote controller of this receiver can learn signals of other manufacturers' remote controllers (learning function). This function enables you to control other manufacturers' components in the same manner as JVC audio/video components using this remote controller.

Switches and Buttons that can Learn

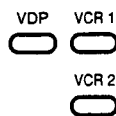
The following switches and buttons can learn signals of other manufacturers' remote controllers:

Power Switches



Power-on/standby signals of other manufacturers' remote controllers can be assigned to the power switches "TV" and "VCR1" on this remote controller.

VDP, VCR 1 and VCR 2 Buttons



Source selector buttons "VDP", "VCR 1", and "VCR 2" issue the signals for selecting receiver sources and the signals for switching the TV input mode to "VIDEO". Using the learning function, these signals can be replaced with the corresponding remote controller signals of other manufacturer's TV.

Touch-Panel Operation Menu

You can add keys to the preset operation menus ("JVC" is displayed under each menu title) or you can make new operation menus suitable for your audio/video components.

Setting the operation mode selector button to the LEARN position displays the menus having the keys that can learn signals of other manufacturers' remote controllers. These keys are blinking. Among these blinking keys, select the keys to be added in the menu and assign remote controller signals of your audio/video components to these keys.

Note: Operation menus "SEA", "DAP", and "TUNER" are used to execute the receiver functions, so their keys cannot be changed. When the LEARN mode is selected, all keys on the touch-panel disappear.

In the LEARN mode, pressing the SELECT-1 button selects either of the following menu display modes alternately:

- JVC extended mode: Only some keys can learn signals. Preset key functions cannot be changed and new keys can be added to extend functions. Both "JVC" and "PROGRAMMED" marks are displayed.

- Full open mode: All keys can learn signals. Menu can be created by assigning only new functions. The "JVC" mark disappears and only the "PROGRAMMED" mark appears.


Notes:

- The JVC extended mode cannot be selected for "TAPE 1", "CHANGER", and "PHONO" menus.
- The "CHANGER" menu and "CD" menu are mutually exclusive. If you get one menu learned, you are not allowed to get access to the other menu.

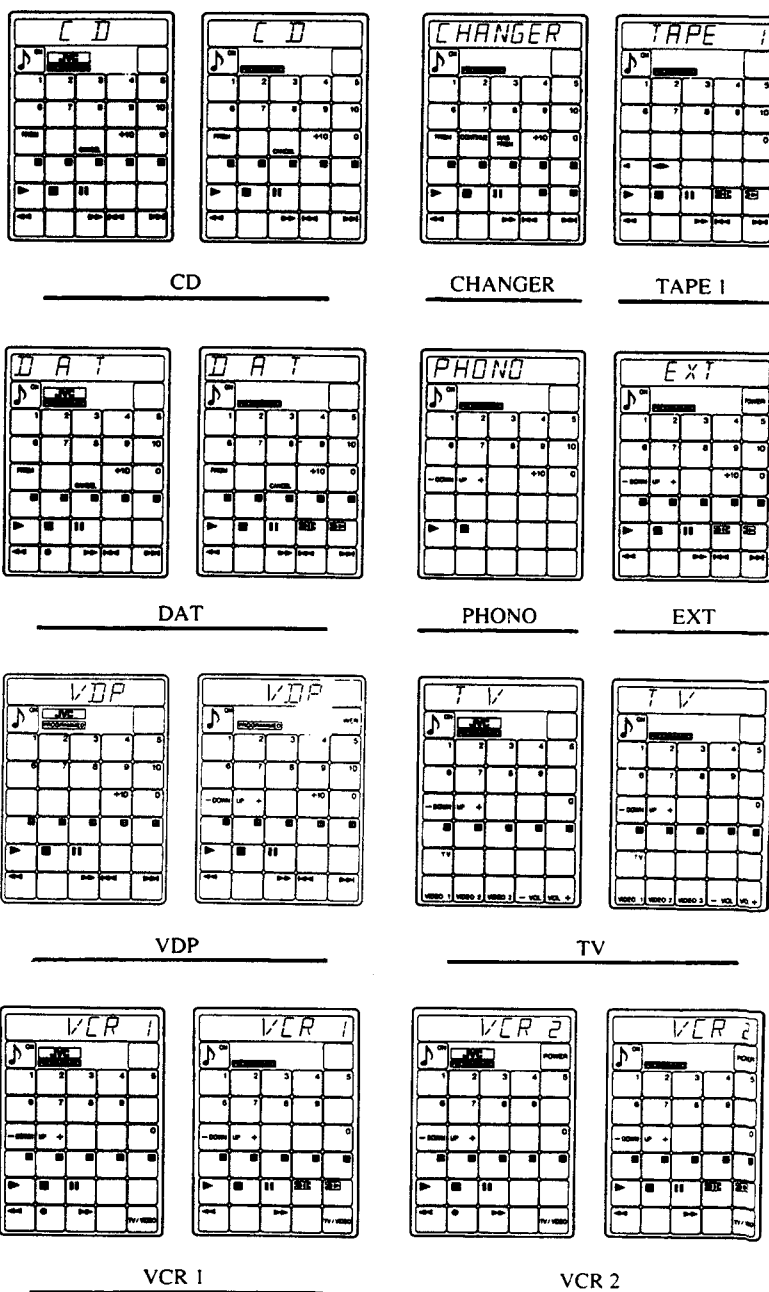
Menus Displayed in LEARN Mode

When the operation mode selector switch is set to the LEARN position, the following menus appear on the touch-panel. The highlighted keys can learn signals. (These keys blink.)

Note: In the displayed menus, some keys are marked ●|| or ●►.

Assign a recording standby command to the keys marked ●|| and assign a recording start command to the keys marked ●►.

Selecting a USE mode will clear these keys and display 0. The ● key alone is not effective if pressed. It can transmit a recording standby command when pressed together with the || key or transmit a recording start command when pressed together with the ► key.



Preparation for learning

Before starting learning, make the following preparations:

1. Setting the Operation Mode



2. Selecting a Menu and Operating the SELECT-1 Button



Set the operation mode selector switch on the back of the remote controller to the **LEARN** position.

To assign signals to the keys on the touch-panel, select the menu having a desired title by pressing the corresponding button among source selector buttons and operation menu selector buttons (TV and EXT).

If the selected menu has both JVC extended mode and full open mode, select either mode by pressing the **SELECT-1** button.

3. Operating the SELECT-2 Button



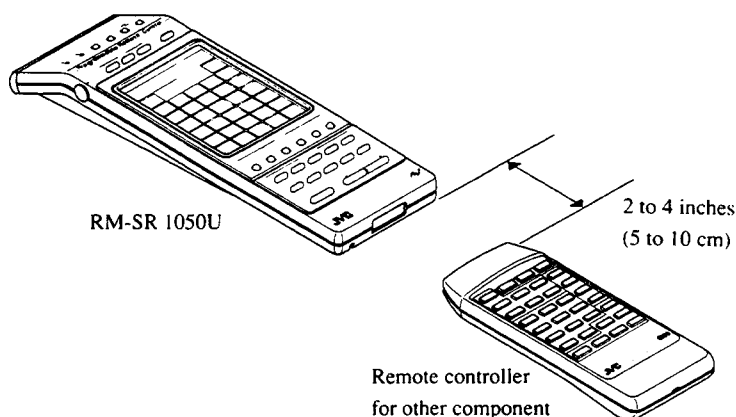
Press the **SELECT-2** button to assign signals to three source selector buttons (VDP, VCR 1, and VCR 2) or two power switch buttons (TV and VCR). The menu on the touch-panel disappears.

4. Preparing the Remote Controller to Learn Control Signals

Place the remote controller of the other component and the receiver's remote controller on a level surface with their signal windows facing each other.

Separate the two remote controllers by 2 inches to 4 inches (5 cm to 10 cm). If this spacing is too great or small, learning may not be carried out properly.

Note: Before starting learning, test the remote control operation using the other component's remote controller to make sure it is ready.



Learning

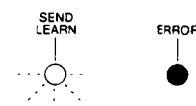
After completion of preparation, assign other remote controller's signals to the receiver's remote controller. Once a signal is assigned to a key or button, another signal cannot be assigned to it if attempted. Cancel the previously assigned signal as mentioned on the next page, then assign another signal.

Learning

- ① Press the key/button to which a signal is to be assigned.

The SEND/LEARN indicator starts blinking.

When a key on the touch-panel is pressed, only this key remains on the touch-panel and other keys disappear.



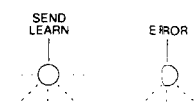
Important! Go to the next step while the SEND/LEARN indicator is blinking for 7 seconds.

- If the ERROR indicator lights, it means that the key cannot learn a signal. Press a key that can learn a signal.
- If you press a wrong key by mistake, press the correct key after the SEND/LEARN indicator stops blinking.

- ② Press the button on the other component's remote controller which you want again.

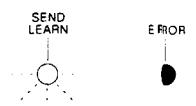
When the SEND/LEARN indicator that has been blinking lights continuously, the ERROR indicator also lights.

Important! Keep pressing the button while the ERROR indicator remains lit.



If the ERROR indicator goes off, it means learning has been completed successfully.

- If the ERROR indicator does not go off but the SEND/LEARN indicator goes off, learning has failed. Try learning again.



After a key on the touch panel has finished learning, another key appears and starts blinking. You can make the blinking key learn another signal in the same manner.

- If the memory becomes full, **OVER** is displayed on the touch-panel. No more signals can be assigned to keys.

Learning Error

If learning fails even after three or four attempts, the signal to be assigned does not match the receiver's remote controller.

The remote controller of this receiver can learn most infrared signals except special signals.

If an audio/video component cannot be operated by the key or button that succeeded in learning, retry learning.

Some audio/video components will not accept control signals which deviate even slightly from the specifications.

Canceling Learned Signals

There are two methods for canceling a learned signal.

- **DELETE:** A signal assigned to only one key or button is canceled.
- **CLEAR :** Signals assigned to all buttons or one menu are canceled.

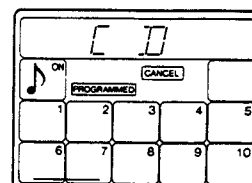
Before canceling a learned signal, be sure to finish the preparation for measurement explained on page 54.

- ① Press the CANCEL button.

The "CANCEL" mark appears on the touch-panel.

Important! Go to the next step while the "CANCEL" mark is displayed for 7 seconds.

Note: The "CANCEL" mark does not appear if there is no key that learned a signal.



- ② To delete a key or button, press it. To clear all buttons or a menu, press the ALL button at the right of the CANCEL button.

Important! Keep pressing the key or button while the "CANCEL" mark is displayed.

If the "CANCEL" mark disappears, it means that cancellation has been completed successfully. When deletion ends successfully, a beep sound is issued once. When deletion ends successfully, a beep sound is issued three times.

Note: After completion of cancellation, set the operation mode selector switch to the USE position to use the remote controller for operating audio/visual components.

Others

This part of the manual includes a troubleshooting guide and the specifications of the receiver.

Contents

Specifications 58

Troubleshooting back cover

Specifications

AUDIO SECTION

Amplifier

Output Power:
FRONT SPEAKERS

120 watts per channel, min.

RMS, both channels driven into 8 ohms from 20 Hz to 20kHz, with no more than 0.007 % total harmonic distortion.

CENTER SPEAKER

70 watts, min. RMS. into 8 ohms at 1 kHz, with no more than 0.7 % * total harmonic distortion.

REAR SPEAKERS

30 watts per channel, min. RMS.

both channels driven into 8 ohms at 1 kHz, with no more than 0.7* % total harmonic distortion.

Total Harmonic Distortion (8 ohms, 1 kHz) :

0.003% * at 120 watts output

Intermodulation Distortion :

0.007% at 120watts output

Frequency Response(8 ohms) :

PHONO

20Hz to 20 kHz (± 0.5 dB)

CD, DAT, TAPE 1, TAPE 2,

VDP, VCR, VCR 1, VCR 2

5 Hz to 20 kHz (+ 0 dB, -1 dB)

Signal -to Noise Ratio ('66 IHF / '78 IHF) :

PHONO

80 dB/80 dB (REC OUT)

CD, CAT, TAPE 1, TAPE 2, VDP, VCR 1, VCR 2

100 dB/85 dB

RIAA Phono Equalization :

± 0.5 dB (20 Hz to 20 kHz)

Digital to Analog Converter

Sampling Frequencies :

32 kHz / 44.1 kHz /48 kHz

S.E.A. Graphic Equalizer:

Center Frequencies :

63 Hz, 160 Hz, 400 Hz 1 kHz, 2.5 kHz, 6.3kHz, 16 kHz

Control Range :

± 10 dB

FM Tuner (IHF)

Tuning Range :

87.5 MHz to 108.0 MHz

Usable Sensitivity :

10.8 dBf (0.95 μ V/75 Ohms)

50 dB Quieting Sensitivity :

monaural

16.3 dBf (1.8 μ V/75 ohms)

stereo

38.3 dBf (22.5 μ V/75 ohms)

Signal-to-Noise Ratio (IHF-A weighted) :

monaural

81 dB at 85 dB at 85 dBf

stereo

73 dB at 85 dBf

Total Harmonic Distortion :

monaural

0.15 % at 1 kHz

stereo

0.2 : % at 1 kHz

Stereo Separation at REC OUT :

40 dB at 1 kHz

Capture Ratio (10 mV/300 ohms) :

1.5 dB

Alternate Channel Selectivity :

65 dB : (± 400 kHz)

Image Responce Ratio :

80 dB at 98 MHz

IF Responce Ratio :

85 dB at 98 MHz

Frequency Responce :

30 Hz to 15 kHz : (+ 0.5 dB, -3 dB)

AM Tuner

Tuning Range : 530 kHz to 1.710 kHz (The U.S.A , Canada)
522 kHz to 1.629 kHz (Continental Europe , the U.K ,
Italy , Australia)
531 kHz to 1.602 kHz (Universal type with channel
space 9kHz)
530 kHz to 1.600 kHz (Universal type with channel
space 10kHz)

Usable Sensitivity :

Loop antenna 300 μ V/m at 1 kHz

External antenna 30 μ V at 1 kHz

Signal-to Noise Ratio : 50 dB at 1 kHz (100mV/M)

Selectivity : 38 dB : ($\pm$ 10 kHz)

Image Responce Ratio : 40 dB at 1 kHz

IF Responce Ratio : 60 dB

Total Harmonic Distortion : 0.5 % at 1 kHz (100mV/m)

Analog I/O terminals

Input Sensitivity/Impedance (1 kHz) :

PHONO (MM) 2.5 mV/ 47k ohms

PHONO (MC) 250 μ V/ 100 ohms

CD, DAT, TAPE 1, TAPE 2, VDP, VCR 1, VCR 2 230 mV/ 47k ohms

Recording Output Level : 230 mV

Digital I/O terminals

Input Sensitivity/Impedance (1 kHz) ;

optical -23 to -14 dBm

coaxial 0.5 Vp-p/ 75 ohms

Recording Output Level/Impedance : 0.5 Vp-p/ 75 ohms

VIDEO SECTION

Signal System

Format : NTSC type color signal and separated Y/C signals
conforming to NTSC.

I/O Terminals 03

Signal-to-Noise Ratio : 45 dB

Crosstalk (3.58 MHz) : 45 dB

Synchronization : Negative

Input Sensitivity / Impedance :

VIDEO (Composite) 1 Vp-p/75 ohms

S-VIDEO Y (Luminance) 1 Vp-p/75 ohms

C (Chrominance, Burst) 0.286 Vp-p/75 ohms

Recording Output Level/Impedance :

VIDEO (Composite) 1 Vp-p/ 75 ohms

S-VIDEO Y (Luminance) 1 Vp-p/75 ohms

C(Chrominance, Burst) 0.286 Vp-p/75 ohms

GENERAL

Power Requirements : AC120V , 60Hz (The U.S.A , Canada)
AC230V , 50Hz (Continental Europe)
AC240V , 50Hz (The U.K , Australia)
AC110,127,220,240V , 50/60Hz (Universal type)

Power Consumption : 530watts,650VA (The U.S.A , Canada)
630watts (Continental Europe)
1250watts (The U.K , Australia)
630watts (Universal type)

Dimensions (W x H x D) : 17-13/16 x 6-3/16 x 15-1/2 inches
452 x 156 x 393 mm

Weight : 27.6lbs (12.5kg)

* Measured by JVC Audio Analysis System.
Design and Specifications subject to change without
notice.

Troubleshooting

Problem	Possible Cause	Solutions
Receiver does not play; Display window does not light up.	Power cord not plugged in	Plug Power cord into AC outlet.
No sound from the speakers.	Speaker wires not connected properly.	Check speaker wiring. Reconnect if needed.
	SPEAKERS buttons not set correctly.	Press the SPEAKERS buttons in or out as desired.
Sound from one speaker only.	Speaker wires not connected properly.	Check speaker wiring. Reconnect if needed.
	Balance control may be set to one extreme.	Adjust Balance control so both speakers have sound.
Continuous hiss or buzzing during FM reception.	Incoming signal may be too weak.	Adjust antenna. Station may be too far away to receive.
	Incorrect antenna used.	Check with your dealer to make sure you are using the correct type of antenna.
	Antenna not connected properly.	Make sure all antennas are properly connected.
Occasional cracking noise during FM reception.	Ignition noise from automobiles.	Move the antenna further away from the road.
Howling during record playing.	Turntable too close to a speaker.	Move speakers away from the turntable.
No picture appears.	TV not connected properly.	Check TV connections. Reconnect if needed.
The Remote Controller cannot be operated.	There is an obstruction blocking the REMOTE SENSOR on the receiver.	Remove the obstruction.
	The batteries of the Remote Controller are weak.	Replace the batteries.

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Technical Explanations

■ AV Compu Link

1 Description

AV Compu Link is a system to simplify A/V equipment operation that has been complicated and troublesome with systematization of A/V components. Take note that A/V Compu Link system is different from conventional "COMPU LINK-1" and "AV control" systems employed in some of video equipment. So, do not use "COMPU LINK-1 SYNCHRO" terminals and ordinary AV control terminal for connection.

2. Signal of AV Compu Link

(1) Status information (new format)

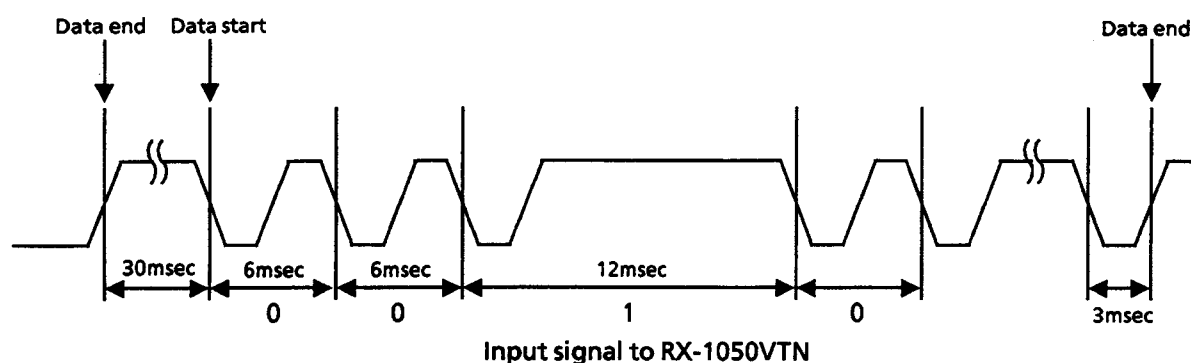
RX-1050VTN receives necessary data about change in state from VCR as input of status information.

Input data is composed of 8 bits of which upper 3 bits are for equipment code and lower 5 bits are for status information.

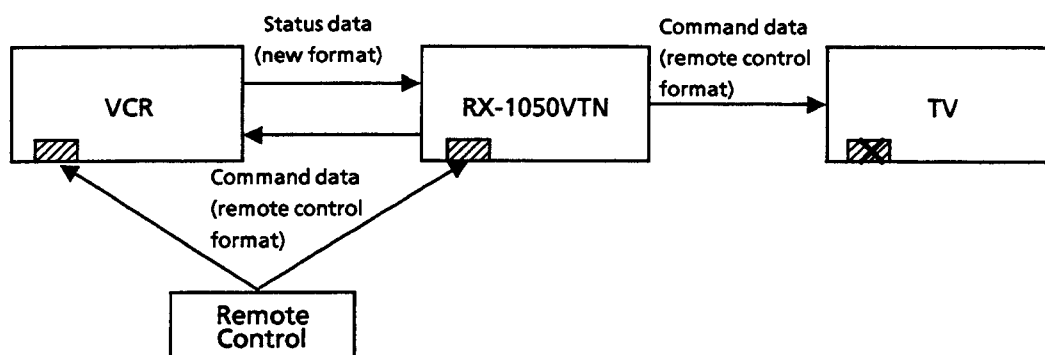
On the other hand, RX-1050VTN outputs command data to VCR and TV through remote control cord (JVC standard).

(2) Specifications of status signal

See the figures below.



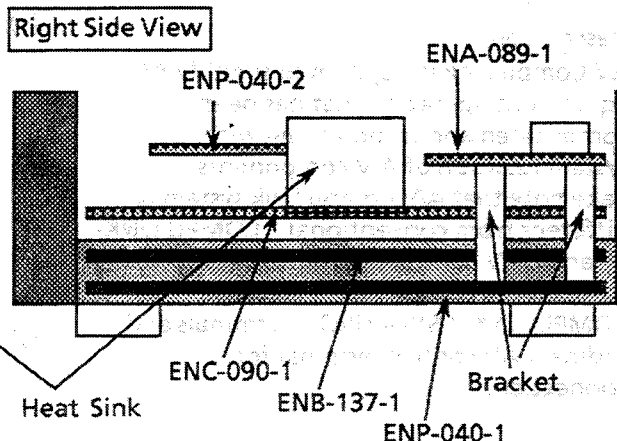
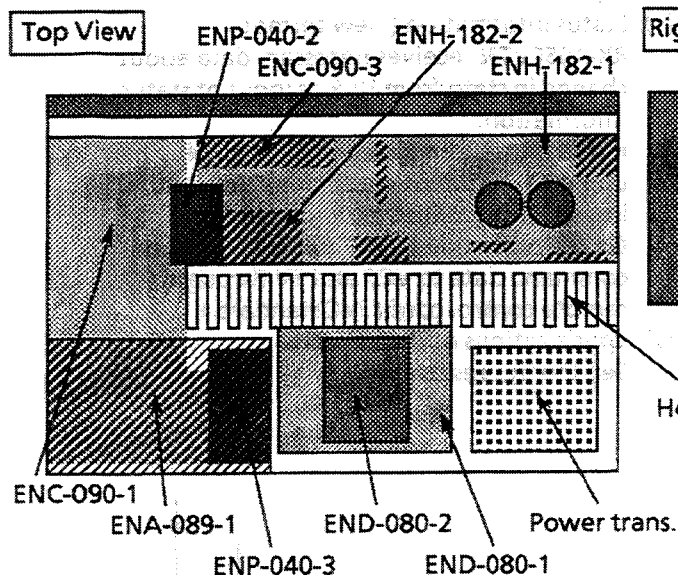
- 1) Transmission of new data is started (Data start) more than 30 msec after the rise of previous Data end.
- 2) Data 0 : 6 msec
Data 1 : 12 msec
- 3) End of data (DATA END) is at the rise of the 9th pulse.



Note : Take note that TV's remote sensor is inactivated when the AV Compu Link terminal is in connection, and the TV is controlled by signal that amplifier receives.

Disassembly Procedures

■ PCB Layout Diagram



■ Removing the top cover

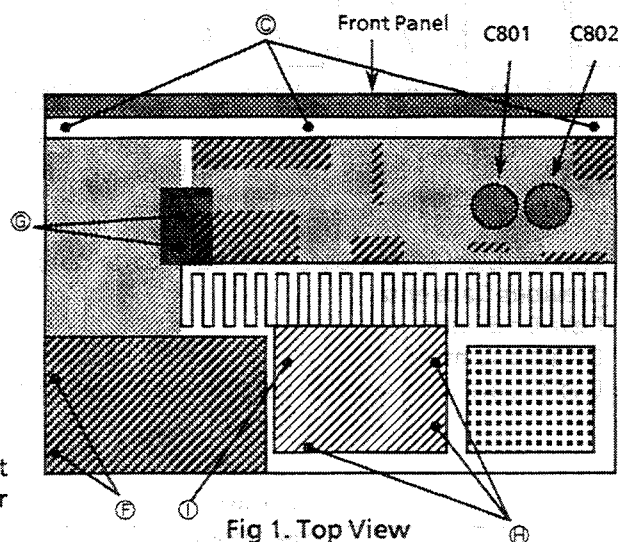
1. Remove the 4 screws on both sides.
2. Remove the 2 screws located on the top of rear panel.
3. Slightly open both sides of the top cover, to the left and right, and raise the rear side. Then slowly lift it up and straight backward.

■ Removing the bottom cover (Fig 3)

1. Remove 17 screws ① fixing the bottom cover.

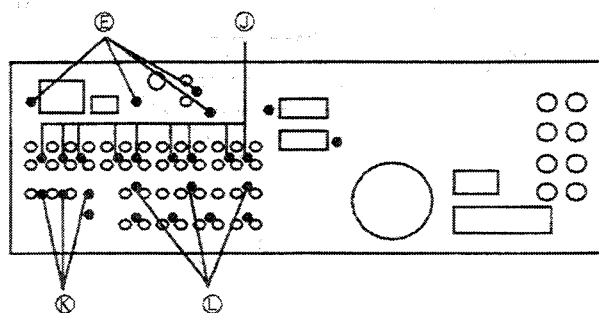
■ Removing the front panel (Fig 1, Fig 3)

1. Remove the top cover.
2. Remove the 3 plastic rivets ③ on the upper part of the front panel and 6 screws ② from the lower part.
3. Remove the front panel.



■ Removing the System & FL control PCB (ENB-137-2) (Fig 4)

1. Remove the top cover.
2. Remove the front panel.
3. Remove the 2 screws ④.
4. Disconnect the connectors and flat wires. (PA401, PA402, PA462, PB442, PB411, PB412, PB413)



■ Removing the Tuner PCB (ENA-089-1) (Fig 1, Fig 2)

1. Remove the 4 screws ⑤ on the rear panel and also remove 2 screws ⑥ fixing the circuit board.
2. Pull off the connectors. (P101, P103)

■ Removing the Rear Effect P.C.B (ENP-040-2)

1. Remove the 2 plastic rivetsⒸ.
2. Pull off the connectors.(PA423,PA424,PA425)

■ Removing the Power supply PCB (END-080-1)

1. Remove the 3 screwsⒹ and the 1 plastic rivetⒺ fixing the circuit board.
2. Pull off the connectors.
(PA834,PA835,PA653,PA812)
3. Unsolder the wires.

■ Removing the Source select & SEA PCB (ENC-090-1) (Fig 2)

1. Remove the Tuner PCB (ENA-089-1) and the Power supply PCB (END-080-1).
2. Remove the 9 screwsⒿ on the rear panel.
3. Remove the 3 screws fixing the circuit board.
4. Pull off the connectors.
(PA244,PA302,PA303,PA304,PA305,PA301,PA651)
5. Remove the 2 blackets holding the P.C.Board.

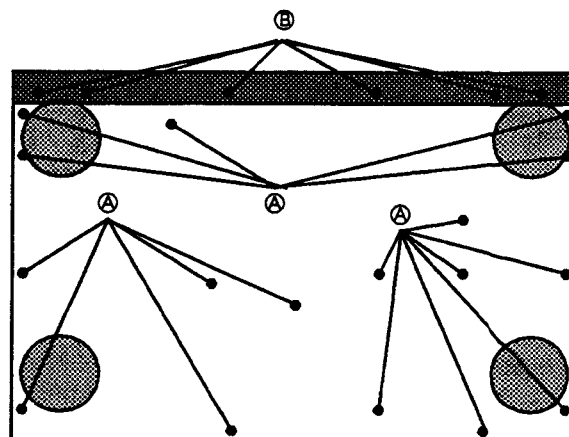


Fig 3. Bottom Cover

■ Removing the Volume control PCB (ENB-137-1) (Fig 2)

1. Remove the Tuner PCB (ENA-089-1) and the Source select & SEA PCB (ENC-090-1).
2. Remove the 3 screws Ⓚ on the rear panel.
3. Remove the 3 screws fixing the circuit board.
4. Pull off the connectors.
(PA241,PA243,PA246,PA403,PA658,PA701, PA702)

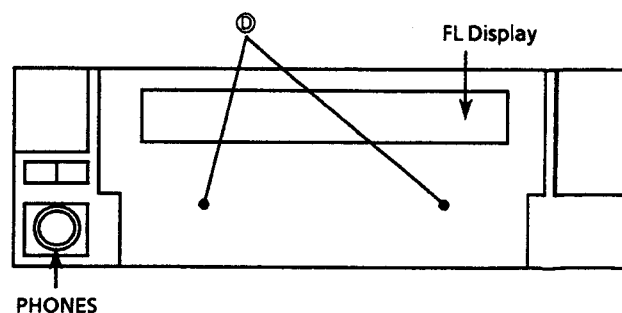


Fig 4. Front P.C. Board(ENB-137-2)

■ Removing the Video selector PCB (ENP-040-3) (Fig 2)

1. Remove the Tuner PCB (ENA-089-1), the Source select & SEA PCB (ENC-090-1), and the Power supply PCB (END-080-1).
2. Remove the 3 screws Ⓛ on the rear panel.
3. Remove the 1 screw fixing the circuit board.
4. Pull off the connectors. (PA657,PA654)

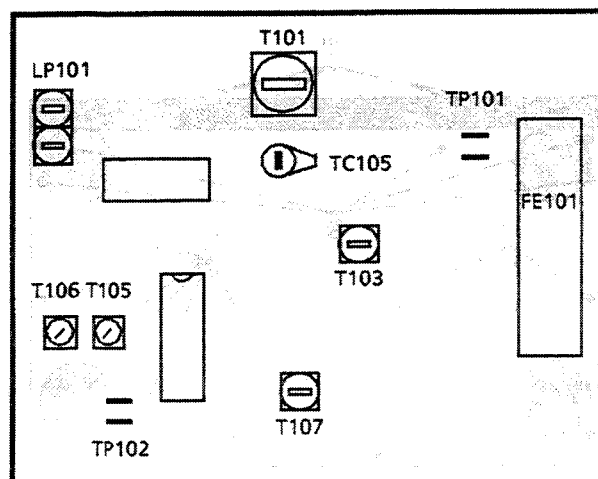
■ Removing the DSP P.C.B.(ENP-040-1)

1. Remove the Tuner PCB(ENA-089-1),Source select & SEA PCB(ENC-090-1) and Video selector PCB (ENP-040-3).
2. Remove the shield bracket.
3. Remove the 7 screws on the rear panel .
4. Remove the 4 screws fixing the P.C.Board.
5. Remove the bracket.
6. Pull off the connectors.(PA421,PA422,PA655)

■ Removing the Fan control & Regulator P.C.B.(END-080-2)

1. Remove the END-080-1.
2. Remove the 4 screws fixing the P.C.Board.
3. Pull off the connectors(PA804,P872).

FM/AM Tuner Alignment Procedures



FRONT

1. FM section

■ FM tuning voltage

- (1) Set the frequency display to "108.0MHz".
- (2) Confirm that the FM inter-station noise is received.
- (3) Confirm that the voltage of test point "TP101" is $8.0 \pm 2.0V$.
- (4) Set the frequency display to "87.5 MHz" and confirm the voltage of test point "TP101" is $1.6 \pm 1.0V$.

■ FM detector coil : T105, T106

- (1) Connect a digital voltmeter to test point "TP102", and receive to "100.1MHz" signal with SSG ATT 70dB.
- (2) Adjust T105 so that the digital voltmeter becomes $0 \pm 1.5mV$.
- (3) At the same time, Adjust T106 so that the monaural distortion of the output becomes minimised.

2. MW section

- Note () : Australia, the U.K. and Continental Europe
 { } : Channel space 9kHz for universal version
 [] : Channel space 10kHz for universal version
 [] : The U.S.A and Canada

■ MW oscillator : T103

- (1) Set the frequency display to (522kHz) {531kHz} [530kHz] [522kHz] and confirm the voltage of test point "TP101" is $(0.9 \pm 0.2V)$ { $1.0 \pm 0.2V$ } [$1.0 \pm 0.2V$] [$1.0 \pm 0.2V$].
- (2) Set the frequency display to (1629kHz) {1602kHz} [1600kHz] [1710kHz] and confirm the voltage of test point "TP101" is $(7.5 \pm 0.8V)$ { $7.2 \pm 0.7V$ } [$7.2 \pm 0.7V$] [$8.0 \pm 0.8V$].
- (3) If its voltage exceeds the allowance, adjust T103 to obtain the voltage.

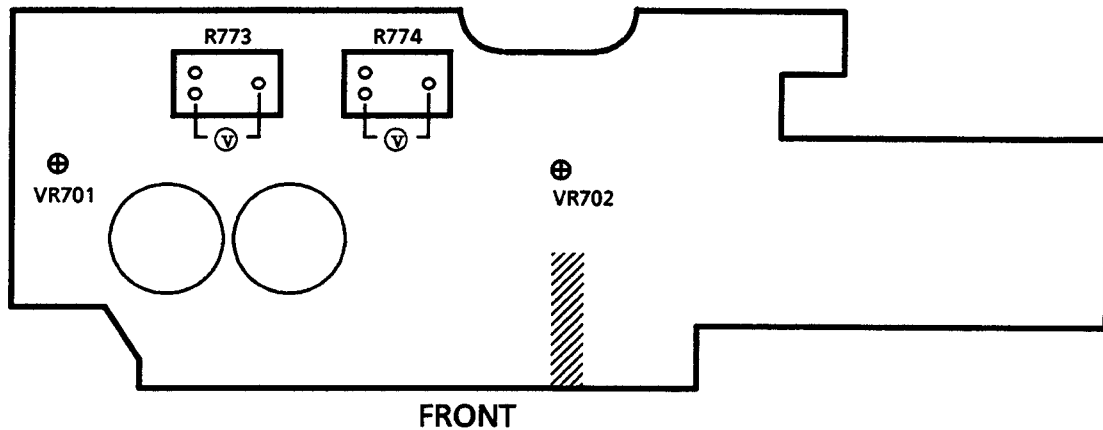
■ MW antenna coil : T101

- (1) Connect a loop antenna to the "AM Loop" terminal on the rear panel.
- (2) Adjust T101 to obtain the best receiving sensitivity at 600kHz or 603kHz.

■ MW antenna trimmer : TC105

- (1) Adjust TC105 to obtain the best receiving sensitivity on 1400kHz or 1404kHz.

Power Amplifier Adjustment Procedures



■ Idling Current

- (1) Turn VR701 and VR702 fully counterclockwise before the power switch on.
- (2) Warm up at least 5 minutes before adjustment.
- (3) Must keep the heatsink to prevent overheating before adjustment.
- (4) Set the volume control to minimum during this adjustment.
- (5) Connect a DC voltmeter to R773 resistor's leads for left channel, or to R774 for right channel.
- (6) Adjust VR701 for left channel, or VR702 for right channel, so that the DC voltmeter becomes 2mV ~ 7mV

Description of Major LSIs

■ MN171202JPD (IC461) : System Controller

Pin functions

NO.	symbol	I/O	Function
1	VDD	—	Power supply (+5V)
2~17	P24~P9	O	FL segment control output.
18	Vpp	—	−38V.
19~26	P8~P1	O	FL segment control output.
27	DATA0	I	Data input from IC401.
28	DATA1	I	Data input from IC401.
29	DATA2	I	Data input from IC401.
30	DATA3	I	Data input from IC401.
31	JPC STB	I	Strobe signal input from IC401.
32	JPC REQ	O	Request signal output to IC401.
33	JPC BUSY	I	Busy signal input to IC401.
35	BUSY	I	Busy signal input from IC486.
36	SCK	O	Serial clock output to IC486.
37	STB	O	Strobe signal output to IC486.
38	DATA	O	Data output to IC486.
39	SPI STB	O	Strobe signal output to IC433.
40	SPI CLK	O	Serial clock output to IC433 and IC434.
41	SPI DATA OUT	I	Data input from IC434.
42	SPI DATA IN	O	Data input to IC433 and IC434.
43	RST	I	Reset signal input from IC401.
44	IPC CLK	I	Clock signal input from IC401.
45	INH	I	Inhibit signal input from IC401.
46	NTSC/PAL	I	H : NTSC mode , L : PAL mode
47	SY-DET	I	Sync signal detect input.
48	SPI-CS	O	Chip select signal output to IC434.
49	SW	O	Composite / Component switching signal output
50		—	Not used.
51		—	Not used.
52	POR	O	Reset signal output to IC465
53	CLK	O	Clock signal output to IC465
54	DSP DATA	O	Display data output to IC465
55	LOAD	O	Latch clock signal output to IC465
56	A	O	Data output to IC462.
57	B	O	Data output to IC462.
58	C	O	Data output to IC462.
59	D	O	Data output to IC462.
60		—	Connect to GND.
61		—	Not used.
62		—	Connect to GND.
63	OSC2	O	Connect to ceramic resonator (6.00MHz).
64	OSC1	I	Connect to ceramic resonator (6.00MHz).

■ MN171602JPC (IC401) : System Controller

Pin functions

NO.	symbol	I/O	Function
1	VDD	—	Power supply (+ 5V)
2~9	I/O1~I/O8	I/O	External D-RAM data I/O terminal.
10~21	A0~A10	O	External D-RAM address output terminal.
22	RECEIVED	O	RECEIVED indicator control signal output.
23~26	DATA0~DATA3	O	Data output to IC461.
27	JPC CLK	O	Clock signal output to IC461.
28	JPC STB	O	Strobe signal output to IC461.
29	JPC REQ	O	Request signal output to IC461.
30	JPC BUSY	O	Busy signal output to IC461.
31	STB1	O	Strobe signal output to IC305, IC302 and IC211.
32	STB2	O	Strobe signal output to IC231 and IC304.
33	STB3	O	Strobe signal output to IC221.
34	STB4	O	Pull down.
35	SEA DI	O	SEA data output to IC504.
36	SEA CLK	O	SEA clock output to IC504.
37	RCK	O	Read clock output to IC291.
38	IC/RST OUT	O	Reset signal output to IC405.
39	WCK/REQ	O	Request signal output to IC405.
40	CLK	O	Clock signal output to IC405, IC302, IC304, IC305, IC211, IC221, IC231 and IC291.
41	INH	O	Inhibit signal output to IC405 and IC461.
42	DATA	O	SPI data output to IC405 and IC461.
43	RESET	I	Reset signal input.
44	INH IN	I	Inhibit signal input.
45	REMOCON	I	Remote control signal input.
46	BUSY	I	Busy signal input from IC405.
47	DCS IN2	I	DCS IN2 signal input.
48	DCS OUT2	O	DCS OUT2 signal output.
49	VCR OUT	O	AV compulink signal output for VCR.
50	VCR IN	I	AV compulink signal input for VCR.
51	TV OUT	O	AV compulink signal output for TV.
52	TV CONT	O	Control the remote signal to TV.
53			
54			
55	$\overline{\text{CE}}$	O	Chip enable signal output for external D-RAM.
56	$\overline{\text{WE}}$	O	Write enable signal for external D-RAM.
57	TUNER MUTE	O	Tuner mute signal output.
58	$\overline{\text{HOLD}}$	O	Hold signal output to IC421.
59	$\overline{\text{RST}}$	O	Reset signal output to IC421 and IC461.
60		—	Connect to GND.
61		—	Not used.
62		—	Connect to GND.
63	OSC2	O	Connect to ceramic resonator (6.00MHz).
64	OSC1	I	Connect to ceramic resonator (6.00MHz).

■ MN17581JNO (IC405) : System Controller

Pin functions

NO.	symbol	I/O	Function
1	VCC	—	Power supply (+ 5V)
2	VSS	—	Connect to GND.
3	INH	I	Inhibit signal input from IC401.
4	REQ	I	Request signal input from IC401.
5	REQ	I	Request signal input from IC401.
6	BUSY	O	Busy signal output to IC401.
7	AD RES	—	Not used.
8	DSP OFF	—	Not used.
9	D.RES	O	Reset signal output to IC670.
10	SRDY	O	Ready signal output to IC670.
11	STRQ	O	Request signal output to IC670.
12	T.TONE	—	Not used.
13	S1	—	Not used.
14	S2	—	Not used.
15	S3	—	Not used.
16	ANA/DIG	I	Connect to + 5V
17	MUTE	O	Mute signal output.
18	CE	O	Chip enable signal output to IC406.
19	A.SW		
20		—	Not used.
21~28	D0~D7	O	External S-RAM data I/O terminal.
29~43	A0~A14	O	External S-RAM address output terminal.
44		—	Not used.
45	EXPS	I	Pull up(+ 5V).
46	FS1	I	Connect to GND.
47	FS2	I	Connect to VCC.
48	ERR	—	Connect to GND.
49	TEST	—	Connect to GND.
50	SI/AK		
51		—	Connect to GND.
52	CLK	I	Clock signal input from IC401.
53	DATA	I	Data input from IC401.
54	S.DATA O	—	Not used.
55	SICK	O	Serial clock output to IC670.
56	INH	I	Inhibit signal input from IC401.
57	SI	O	Serial data output to IC670.
58	RST	I	Reset signal input from IC401.
59	SYNC	—	Not used.
60	X2	—	Not used.
61	X1	—	Not used.
62	VES	—	Connect to GND.
63	OSC2	O	Connect to ceramic resonator (7.2MHz).
64	OSC1	I	Connect to ceramic resonator (7.2MHz).

■ LC83010N (IC670)
: DSP (Digital Signal Processor)

(1) Terminal layout

P0	1	64	SRDY
P1	2	63	SI
P2	3	62	SIRQ
P3	4	61	SICK
P4	5	60	SI
P5	6	59	SOAK
AOTDF1	7	58	SORQ
AOTDF2	8	57	SOCK
DFBCK	9	56	SO
DFWCK	10	55	AOWCK
RAS	11	54	ASO
CAS	12	53	AOBCK
D READ	13	52	TEST4
D WRT	14	51	TEST3
VDD1	15	50	TEST2
OSC1	16	49	TEST1
OSC2	17	48	VSS2
VSS1	18	47	INT
FS3840	19	46	RES
D0	20	45	VDD2
D1	21	44	TEST5
D2	22	43	SEL
D3	23	42	LRCKI
D4	24	41	LRCKO
D5	25	40	ASI2
D6	26	39	ASI1
D7	27	38	BCK2
A0	28	37	BCK1
A1	29	36	A8
A2	30	35	A7
A3	31	34	A6
A4	32	33	A5

(2) Pin functions

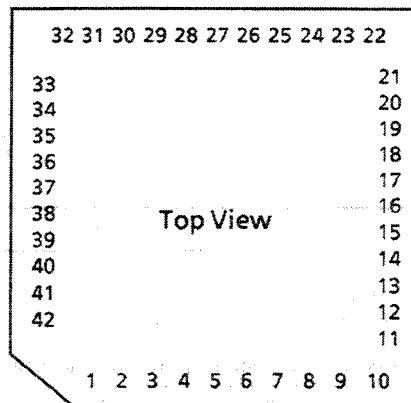
Pin No.	Symbol	I/O	Function
1~6	P0~P5	I/O	Not used
7,8	AOTDF1 / AOTDF2	O	Audio serial data output.
9	DFBCK	O	Bit clock for AOTDF1 / AOTDF2 output.
10	DFWCK	O	Not used
11	RAS	O	ROW ADDRESS STROBE : Signal output when accessing external D-RAM.
12	CAS	O	COLUMN ADDRESS STROBE : Signal output when accessing external D-RAM.
13	D READ	O	Data read signal output when accessing external D-RAM.
14	D WRT	O	Data write signal output when accessing external D-RAM.
15,45	VDD	—	Power supply (+ 5V)
16	OSC1	I	External clock input. (384fs)
17	OSC2	O	Not used
18,48	VSS	—	Ground
19	FS3840	O	384fs output
20~27	D0~D7	I/O	Data input / output between external D-RAM and these pins.
28~36	A0~A8	O	Address output for external D-RAM.
37	BCK1	I	Bit clock for ASI 1 input.
38	BCK2	I/O	Bit clock for ASI 2 input.
39	ASI 1	I	Audio data input
40	ASI 2	I	Audio data input
41	LRCKO	O	L/R channel selectable signal output.(L:R-ch , H:L-ch)
42	LRCKI	I	L/R channel selectable signal input.(L:R-ch , H:L-ch)
43	SEL	I	Oscillator selectable signal input. (L:external , H:internal)
44	TEST 5	O	Output for TEST.
46	RES	I	Reset input
47	INT	I	Interrupt request signal input.
49~52	TEST1~TEST4	I	Input for test. Connect to ground.
53	AOBCK	O	Bit clock for ASO output
54	ASO	O	Audio data output
55	AOWCK	O	Not used
56	SO	O	Not used
57	SOCK	O	Not used
58	SORQ	I	Request signal input for output
59	SOAK	O	Not used
60	SI	I	Serial data input from control micro computer.
61	SICK	I	Serial clock input for SI input.
62	SIRQ	I	Request signal input for serial input.
63	SI	O	Signal output which indicates that the serial input is on the execution.
64	SRDY	I	Ready signal input which indicates that the serial data input from control micro computer is an end.

■ JCE4302A (IC653): Digital filter and D/A Converter

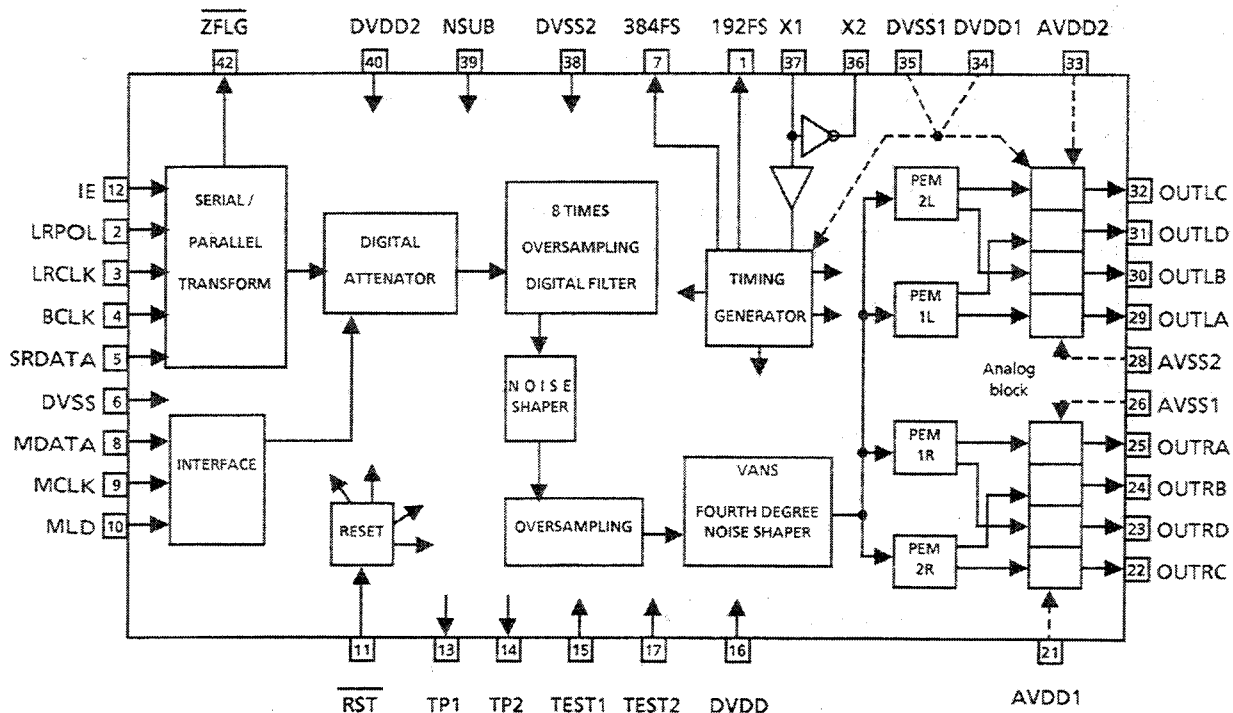
1. Outline

The JCE4302A is a D / A Converter IC with good linearity and high resolution more than 20 bits , and built-in 8 times oversampling digital filter and noise shaping DAC. High resolution data from digital filter is once sampled over sampling and compressed by unstarated fourth degree noise shaper for VANS (Victor Advanced Noise Shaper) ,while repress quantization noise of audio range at non problem level (- 120dB). Then it changed pulse wave (A,B,C,D) at changing for crystal clock by PEM(Pulse Edge Moduration) method which has no high frequency distortion, and directly transform to analog signal. Zero cross and glitch distortion which were generated at rather type DAC are bad for quality; and they are excluded in principle by 1 bit movement of pulse wave so that correct linearity is obtainable. Pulse wave A,B,C,D are compounded at external, and become analog signals which is faithful to input.

2. Terminal Layout



3. Internal Block Diagram



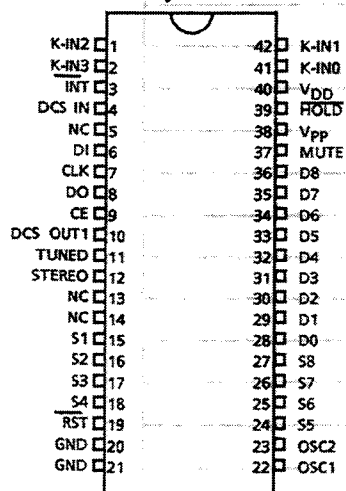
4. Terminal Function

Pin No.	Symbol	I/O	Active	Function
1	192FS	O	—	192fs output pin (Not used)
2	LRPOL	I	H	L-ch / R-ch switching pin.(H: When LRCLK is H, SRDATA is L-ch)
3	LRCLK	I		L / R switching signal of SRDATA.
4	BCLK	I		Bit transfer instruction input. (bit transfer at rise)
5	SRDATA	I		Serial data input.
6	DVSS	—		Digital system ground pin.
7	384FS	O		384fs output pin.
8	MDATA	I	L	Microprocessor command input pin. (Connect to GND)
9	MCLK	I	H	Microprocessor clock input pin. (bit transfer at rise)
10	MLD	I	H	Latch signal of MDATA.
11	$\overline{\text{RST}}$	I		Reset signal input pin. (L : Active)
12	IE	I	L	Changing the format of SRDATA. (Connect to GND)
13	TP1	O	—	Digital filter test output pin 1. (Not used)
14	TP2	O	—	Digital filter test output pin 2. (Not used)
15	TEST1	I	L	Digital filter test input pin 1. (Connect to GND)
16	DVDD	—	H	Digital system power supply pin. (common fixed electrical potential pin)
17	TEST2	I	L	Digital filter inspection test signal input pin. (Connect to GND)
18	NC		—	(Not used)
19	NC		—	(Not used)
20	NC		—	(Not used)
21	AVDD1	—		Analog system power supply pin.
22	OUT RC	O		Rch output C.
23	OUT RD	O		Rch output D.
24	OUT RB	O		Rch output B.
25	OUT RA	O		Rch output A.
26	AVSS1	—		Analog system ground. (Rch)
27	NC		—	(Not used)
28	AVSS2	—		Analog system ground. (Lch)
29	OUT LA	O		Lch output A.
30	OUT LB	O		Lch output B.
31	OUT LD	O		Lch output D.
32	OUT LC	O		Lch output C.
33	AVDD2	—		Analog system ground.
34	DVDD1	—		Digital system power supply pin.(timing generator section)
35	DVSS1	—		Digital system ground.
36	X2	O		X'tal oscillator pin.
37	X1	I		X'tal oscillator pin. (384fs = 16.9344MHz)
38	DVSS2	—		Digital system ground.
39	NSUB	—	H	Connects to D-Vdd.(silicon substrate fixed electrical potential pin)
40	DVDD2	—		Digital system power supply pin.
41	NC		—	(Not used)
42	$\overline{\text{ZFLG}}$	O		Detect the input data "0". (When input data is "0", ZFLG is L.)

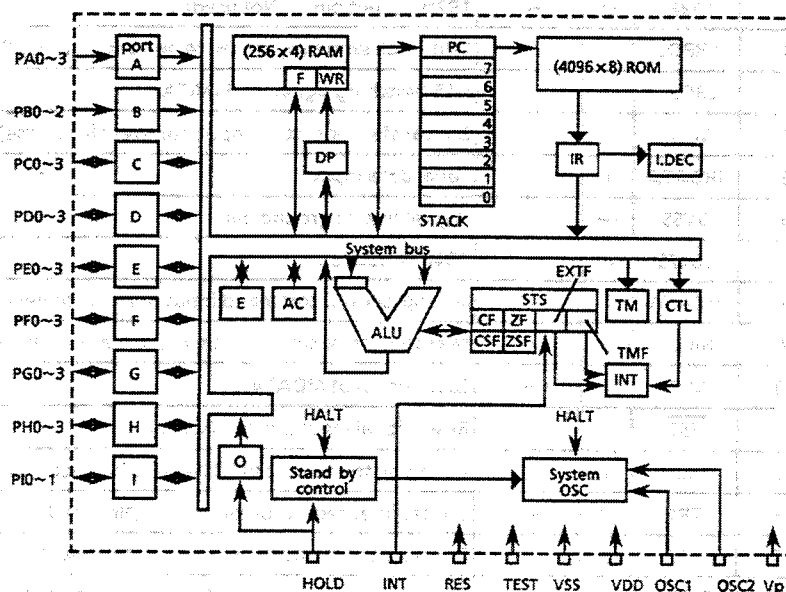
▲ ("—" is open)

■ LC6514B-4131 (IC421) : Tuner Control & FL Driver

1. Terminal Layout



2. Block Diagram



3. Key Matrix table

Pin No.	IN	41 (K-IN0)	42 (K-IN1)	1 (K-IN2)	2 (K-IN3)
28 (D0)			MEMORY	AUTO MEMORY	
29 (D1)		FM	AM		AUTO MODE
30 (D2)		TUNING UP	TUNING DOWN		
31 (D3)		1	2	3	4
32 (D4)		5	6	7	8
33 (D5)		9	10	+ 10	PRESET SCAN

4. Terminal Functions

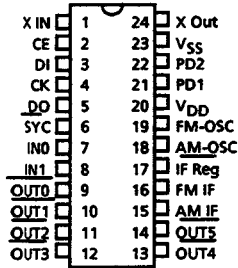
Pin No.	Name	I/O	Function
1	K-IN2	I	Key matrix input.
2	K-IN3	I	Key matrix input.
3	INT	I	Not used. (Connect to V _{DD} .)
4	A BUS IN	I	COMPU-LINK signal input.
5	NC	—	Non connection.
6	DI	I	Serial data input from PLL (IC102 : LC7218).
7	CLK	O	Serial clock output to PLL (IC102 : LC7218).
8	DO	O	Serial data output to PLL (IC102 : LC7218).
9	CE	O	Chip enable output to PLL (IC102 : LC7218).
10	A BUS OUT	O	COMPU-LINK signal output.
11	TUNED	I	Broadcast receiving when "L" is input.
12	STEREO	I	FM stereo reception when "L" is input.
13, 14	NC	—	Non connection.
15~18	S1~S4	O	Segment drive for FL display.
19	RES	I	Reset signal input.
20	GND	—	Connect to GND.
21	GND	—	Connect to GND.
22	OSC1	—	1MHz Resonator.
23	OSC2	—	1MHz Resonator.
24~27	S5~S8	O	Segment drive for FL display.
28~31	D0~D3	O	Digit drive for FL display and key matrix output.
32~33	D4~D5	O	Digit drive for FL display and key matrix output.
34	D6	O	Digit drive for FL display.
35	D7	O	Key matrix output.
36	D8	O	Key matrix output.
37	MUTE	O	Muting output.
38	V _p	—	—39V.
39	HOLD	I	Hold signal input.
40	V _{DD}	—	+5 V.
41	K-IN0	I	Key matrix input.
42	K-IN1	I	Key matrix input.

■ LC7218 (IC102) : PLL Synthesizer

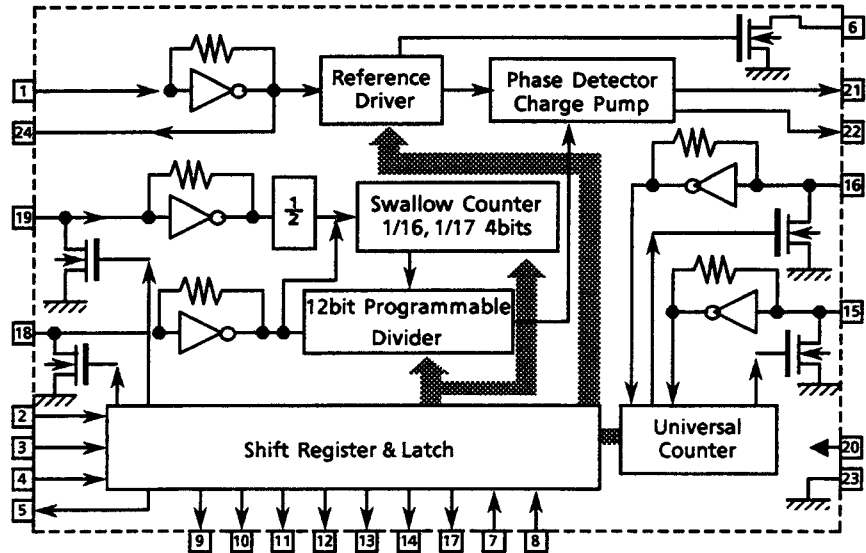
1. The main function descriptions

- (1) It makes the local oscillation frequency by the control data from IC102.
- (2) Decode the control signal and transmit the signal for receiving conditions.
- (3) For the best tuning, count the internal-frequency and transmit the data to IC102.

2. Terminal Layout



3. Block Diagram



4. Pin Functions

Pin No.	Symbol	I/O	Function
1, 24	X in, X out	I/O	Crystal oscillator (7.2MHz).
2	CE	I	Fix the chip enable to "H" when inputting (DI) and outputting (DO) the serial data.
3	DI	I	Receive the control data from the controller (IC421).
4	CK	I	This clock is used to synchronize data when transmitting the data of DI and DO.
5	DO	O	Transmit the data from LC7218 to the controller which is synchronized with CK.
6	SYN	—	Not use
7	Tuned in	I	Receive the tuned signal from IC104 (LA1266A).
8	Stop in	I	Not use
9	POWER	—	Not use
10	QSC	—	Not use
11	MONO	—	MONO
12	FM	O	It is "L" on FM mode.
13	MW	O	It is "L" on AM mode.
14	LW	—	Not use
15	AM-IF	I	Universal counter input for AM-IF from IC104 (LA1266A).
16	FM-IF	I	Universal counter input for FM-IF from IC104 (LA1266A).
17	IF REQ	O	Output the "IF-signal request" to IC104 when the pin-7 (tuned in) goes to "H".
18	AM osc	I	Input the local oscillator signal of AM.
19	FM osc	I	Input the local oscillator signal of FM.
20	V _{DD}	—	This is a terminal of power supply.
21	PD1	O	PLL charge pump output: When the local oscillator signal frequency is higher than the reference frequency, high level signals will output. When it is lower than the reference frequency, low level signals will output. When it is same as reference frequency signals, it will be floating.
22	PD2	O	Not use
23	V _{SS}	—	GND

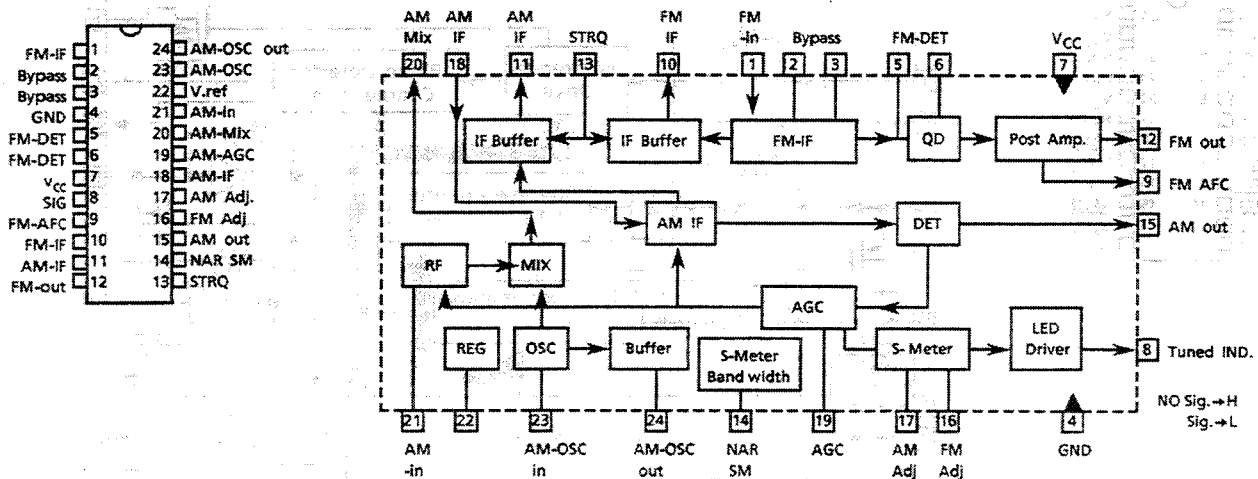
■ LA1266A (IC104) : FM / AM IF AMP & detector

1. The main function descriptions

- (1) Amplify and detect of FM intermodulation frequencies.
- (2) It has local oscillator and mixer for AM, and amplify the AM-IF signal.

2. Top View

3. Block Diagram



4. Pin Functions

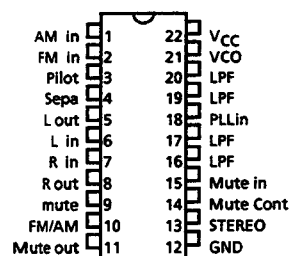
Pin No.	Symbol	I/O	Function
1	FM IF	I	This is an input terminal of FM IF Signal.
2, 3	Bypass		Bypass of FM IF Amp.
4	GND		This is the device ground terminal.
5, 6	FM DET		FM detect transformer.
7	V _{cc}		This is the power supply terminal.
8	SIGNAL	O	Mute drive and signal stop drive output when tuning. Active Low
9	FM AFC	O	This is an output terminal of voltage for FM - AFC.
10	FM IF	O	When the IF REQ signal of IC102(LC7218) applies to pin13, the signal of FM IF outputs.
11	AM IF	O	When the IF REQ signal of IC102(LC7218) applies to pin13, the signal of AM IF outputs.
12	FM out	O	FM detection output.
13	STRQ	I	The IF-signals come out from pin10 (FM-IF) or pin11 (AM-IF) while this terminal goes to "High".
14	NAR SM		Control the Band-width of AM signal meter.
15	AM out	O	AM detection output.
16	FM Adj		For adjust the stop level (or mute level) of FM.
17	AM Adj		For adjust the stop level (or mute level) of AM.
18	AM-IF	I	Input of AM IF Signal.
19	AM-AGC	I	This is an AGC voltage Input terminal for AM.
20	AM-MIX	O	This is an output terminal for AM mixer.
21	AM-IN	I	This is an input terminal for AM RF Signal.
22	V.REF		Control the Band-width of FM signal meter.
23	AM-OSC		This is a terminal of AM Local oscillation circuit.
24	AM-OSC out	O	AM Local Oscillation Signal output.

■ LA3401 (IC105) : FM MPX Detector

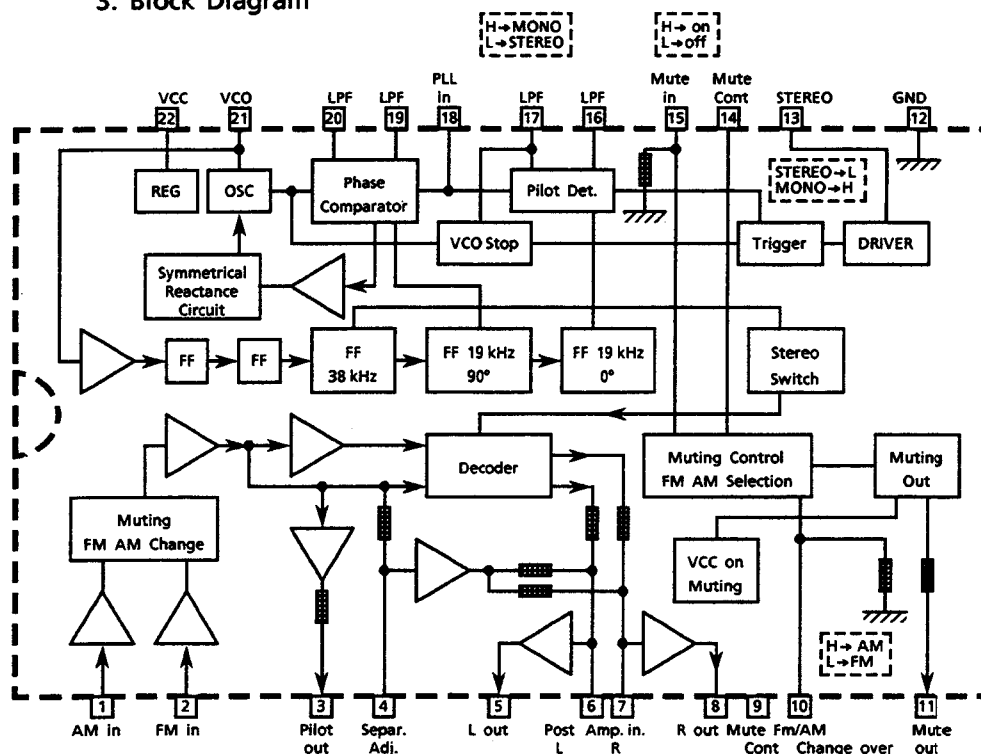
1. The main function descriptions

- (1) Detect the FM Multiplex Signal (Stereo signal).
- (2) When receiving FM Stereo Signal, it outputs the signal for indicator.
- (3) AM / FM Audio Amplifier.

2. Terminal Layout



3. Block Diagram

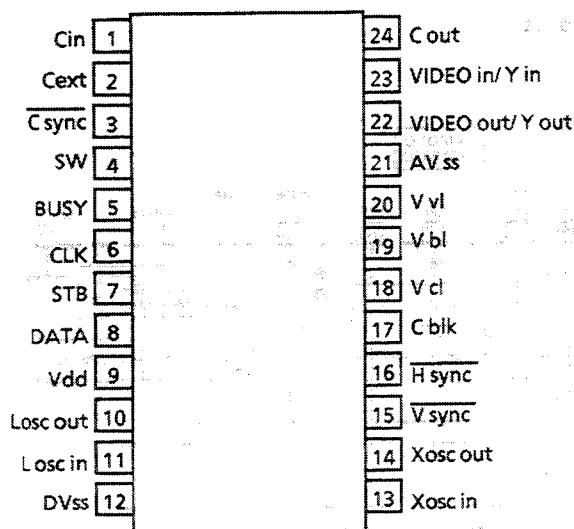


4. Pin Functions

Pin No.	Symbol	I/O	Function
1	AM in	I	This is an input terminal for AM detection signal.
2	FM in	I	This is an input terminal for FM detection signal.
3	Pilot out	O	Output of MPX pilot signal (Connect to Pin18).
4	Sepa. Adj.	—	Separation adjustment.
5	L. out	O	Left channel signal output.
6	L	O	Reversal output of Pin5.
7	R	O	Reversal output of Pin8.
8	R out	O	Right channel signal output
9	Mute Cont	—	The mute time is controlled by the connected capacitor when turning the power switch on.
10	FM / AM	I	Change over the FM / AM input. "H" : AM, "L" : FM
11	Mute out	—	Not use
12	GND	—	Ground terminal.
13	Stereo	O	Stereo indicator output. Stereo : "L", Mono : "H"
14	Mute Cont	—	The mute time is controlled by the connected capacitor when changing over the FM / AM .
15	Mute in	I	Mute signal input. "H" : Mute on, "L" : Mute off.
16	LPF	—	Low pass filter of pilot detector.
17	LPF	—	While this terminal goes to "H", the VCO stop.
18	Pilot in	I	Pilot signal input.
19	LPF	—	Low-pass filter of Pilot signal.
20	LPF	—	Low-pass filter of Pilot signal.
21	VCO	—	Voltage controlled oscillator terminal.
22	Vcc	—	Power supply.

■ μ PD6452CS(IC486) : ON SCREEN Display Drive IC for S Output

1. Terminal Layout



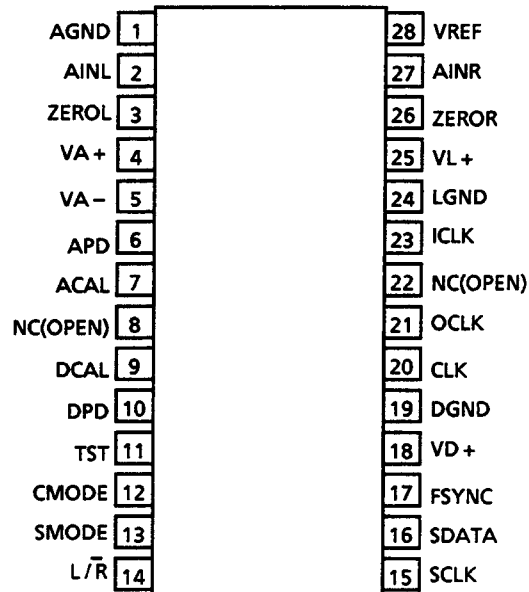
2. Pin Functions

Pin No.	Pin Name	Functions
1	C in	Input terminal of component chrominance signal.
2	C ext	Terminal of external capacitance to prevent crossing of colors.
3	C sync	Composite synchronous signal is output with synchronism negative from this terminal when internal synchronous signal is generated.
4	SW	If high level signal is input, device is set for component signal, and if low level signal is input, device is set for composite signal.
5	BUSY	Input terminal to notify micro computer of possibility of inputting of strobe after serial data have been input. Strobe can be input when low level.
6	CLK	Input terminal of clock for reading data. Data applied to DATA terminal are read at rise of clock.
7	STB	Strobe input terminal used after serial data have been input. 8-bit data are read at rise of pulse applied to STB terminal.
8	DATA	Input terminal of control data. Data are read msynchronized with clock applied to CLK terminal.
9	V dd	Terminal to supply power(+ 5V).
10	L osc out	Terminal to connect coil and capacitor of oscillator to generate dots and clock.
11	L osc in	
12	G ss	Connected to GND of system.
13	X osc in	Crystal oscillator terminal of oscillator to generate internal synchronous signal.
14	X osc out	
15	V sync	Input terminal of vertical synchronous signal. Input with active low.
16	H sync	Input terminal of horizontal synchronous signal. Oscillation starts when H-sync is at high level and is synchronized with rise of H-sync. Input with active low.
17	C blk	Output terminal of blanking signal to cut video and chrominance signals when external component is input. Output with active high.
18	V cl	Input terminal for adjustment of level of character signal (white level).
19	V bl	Input terminal for adjustment of level of background signal (black level).
20	V vl	Input terminal for adjustment of level of video /Y signal (sink tip level) made when internal synchronous signal is generated.
21	G ss	Connected to GND of system.
22	Video out /Y out	Output terminal of mixture of Vin/Yin signals and character signal made when external is input, and mixture of composite video signal and character signal when internal synchronous signal is generated and SW = 0 and mixture of component brightness signal and character signal when SW = 1.
23	Video in /Y in	Input terminal of composite video signal or component brightness signal. Input with synchronization negative and video positive.
24	C out	Output terminal of component chrominance signal. This signal opens output when external composite video signal is input and opens output synchronizing with the character and background signal output when external component signal is input. It also opens output when internal synchronous signal is generated and composite video signal is applied, and its output level is fixed by Vv1 synchronizing with character and background signals when component signal is applied.

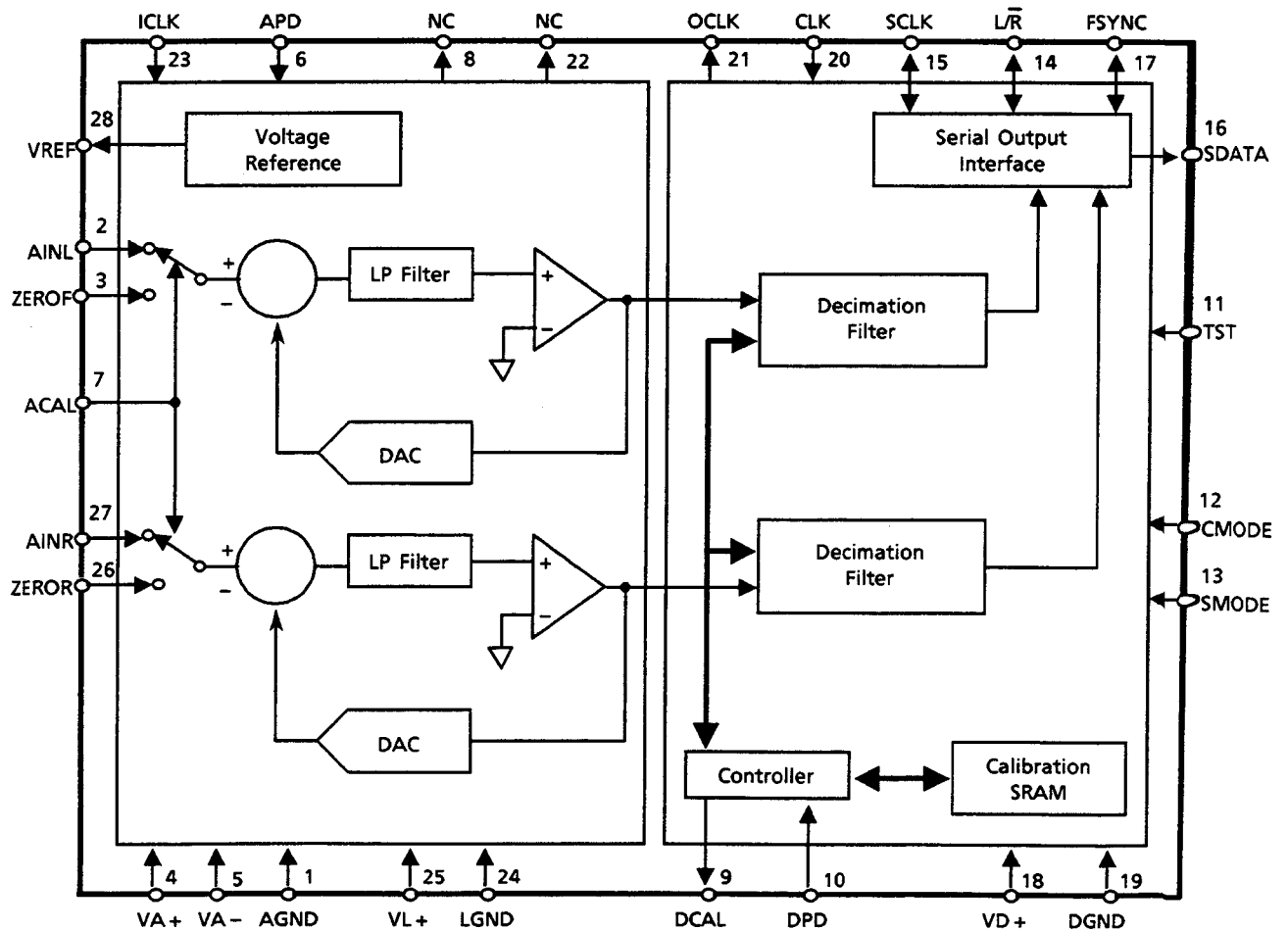
Internal Block Diagram of Other ICs

■ CS5339-KP (IC667) : Analog to Digital Converter

1. Terminal layout

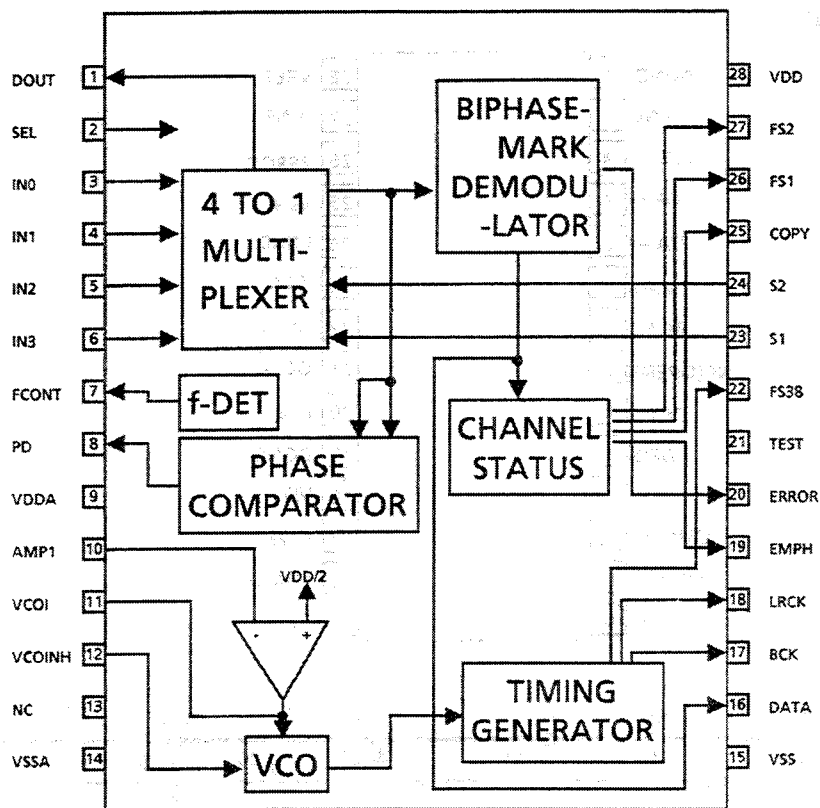


2. Block diagram



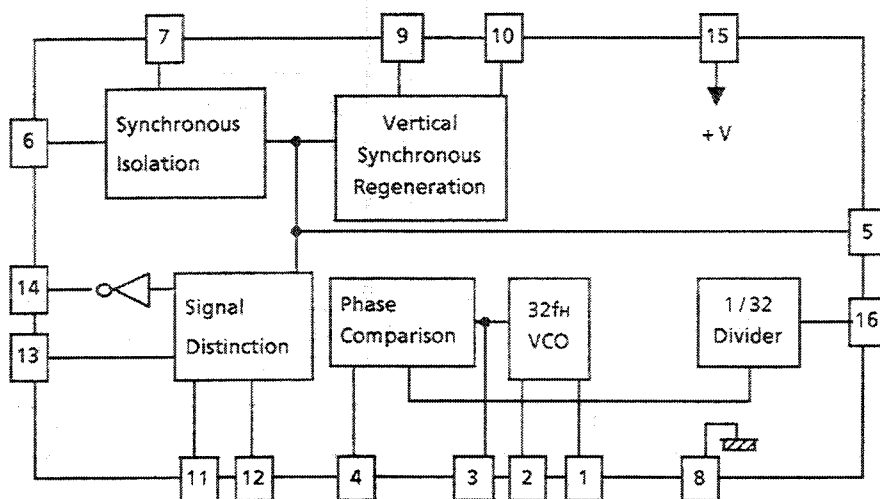
■ TC9245N (IC651) : Digital audio interface

1. Internal Blockdiagram



■ NJM2229S (IC485) : Video ON SCREEN Display Drive

1. Internal Blockdiagram

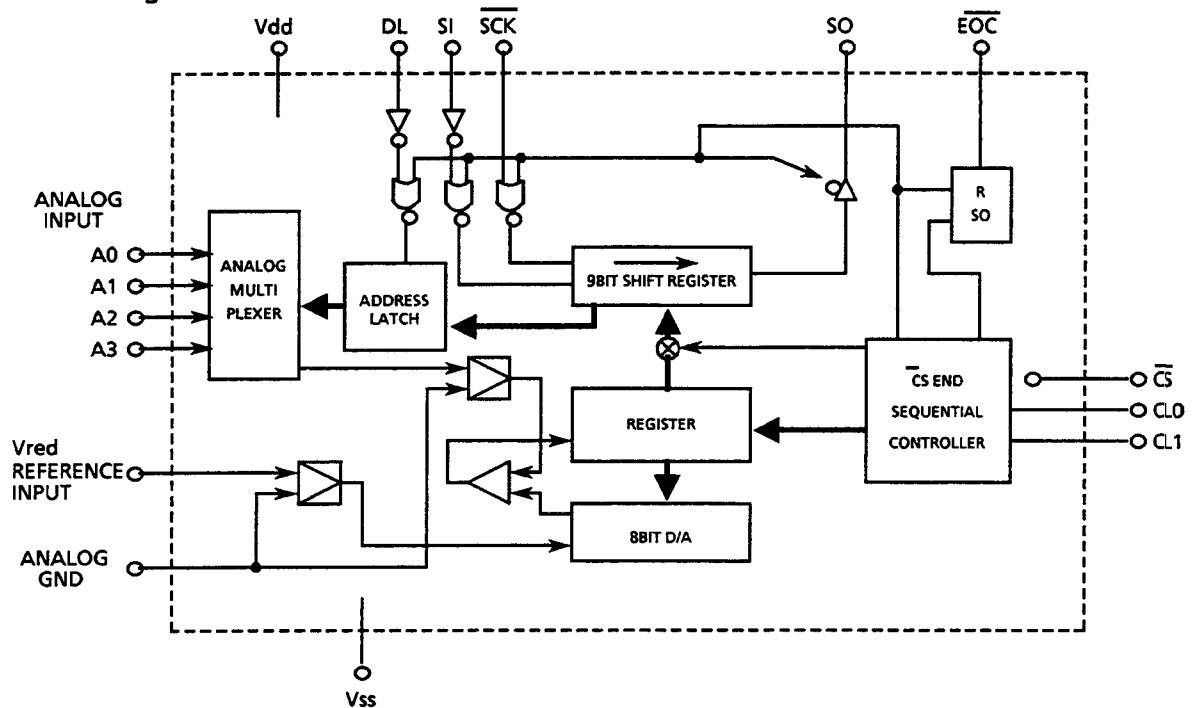


■ μ PD7001C(IC434) : A / D Converter

1. Terminal Layout

$\overline{\text{EOC}}$	1	16	VDD
DL	2	15	VREF
SI	3	14	GND
$\overline{\text{SCK}}$	4	13	A3
SO	5	12	A2
$\overline{\text{CS}}$	6	11	A1
CL0	7	10	A0
CL1	8	9	VSS

2. Block Diagram



■ TC74HC595AP(IC291) : 8 Bits Shift Register

1. Terminal Layout

QB	1	16	Vcc
QC	2	15	QA
QD	3	14	SI
QE	4	13	$\overline{\text{G}}$
QF	5	12	RCK
QG	6	11	$\overline{\text{SCK}}$
QH	7	10	SCLR
GND	8	9	QH

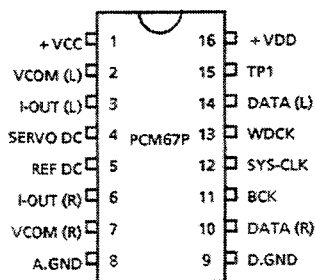
2. Function Table

Inputs					Function
B1	SCK	SCLR	RCK	G	
X	X	X	X	H	Output (QA-QH) disable.
X	X	X	X	L	Output (QA-QH) enable.
X	X	L	X	X	Shift register is cleared.
L		H	X	X	Condition of shift register in initial stage is "L". In the other stages, data from the former stage is stored.
H		H	X	X	Condition of shift register in initial stage is "H". In the other stages, data from the former stage is stored.
X		H	X	X	Shift register does not change.
X	X	X		X	Shift register data is stored in the storage register.
X	X	X		X	Shift register does not change.

X : Don't care

■ PCM67P (IC676,677) : Digital to Analog Converter

1. Terminal Layout

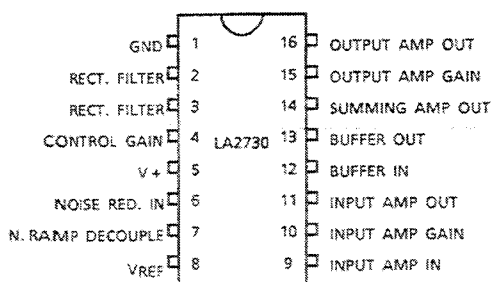


2. Pin Functions

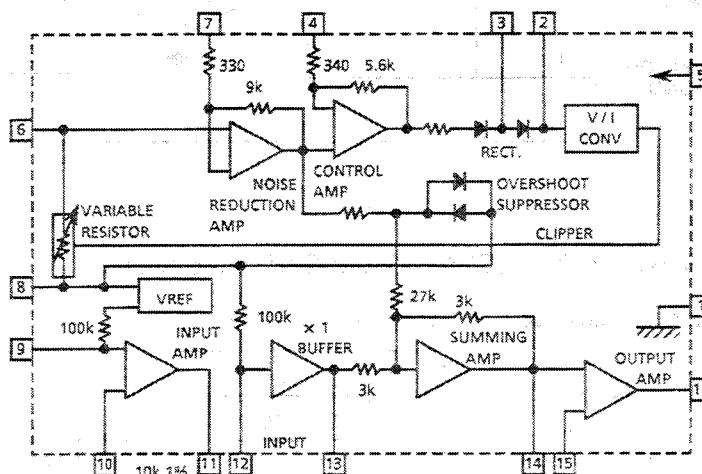
Pin No.	Symbol	I/O	Function
1	+V _{CC}	-	Power supply for analog
2	VCOM (L)	-	L-ch V common
3	I-OUT (L)	O	L-ch Current output
4	SERVO DC	-	Servo filter
5	REF DC	-	Reference filter
6	I-OUT (R)	O	R-ch Current output
7	VCOM (R)	-	R-ch V common
8	A.GND	-	Analog ground
9	D.GND	-	Digital ground
10	DATA (R)	I	R-ch data input
11	BCK	I	Bit clock input
12	SYS-CLK	I	System clock input
13	WDCK	I	Word clock input
14	DATA (L)	I	L-ch data input
15	TP 1	-	Test pin
16	+V _{DD}	-	Power supply for digital

■ LA2730 (IC684) : Dolby-B Noise Reduction

1. Terminal Layout

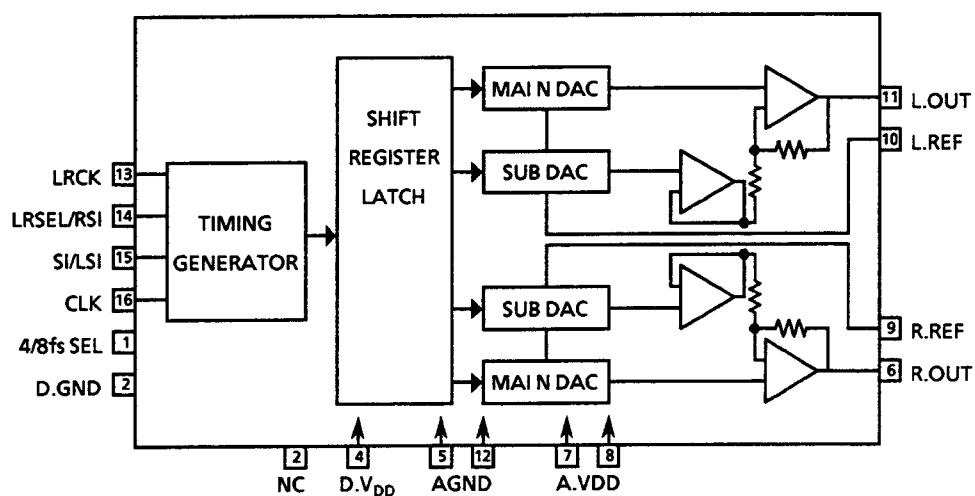


2. Block Diagram



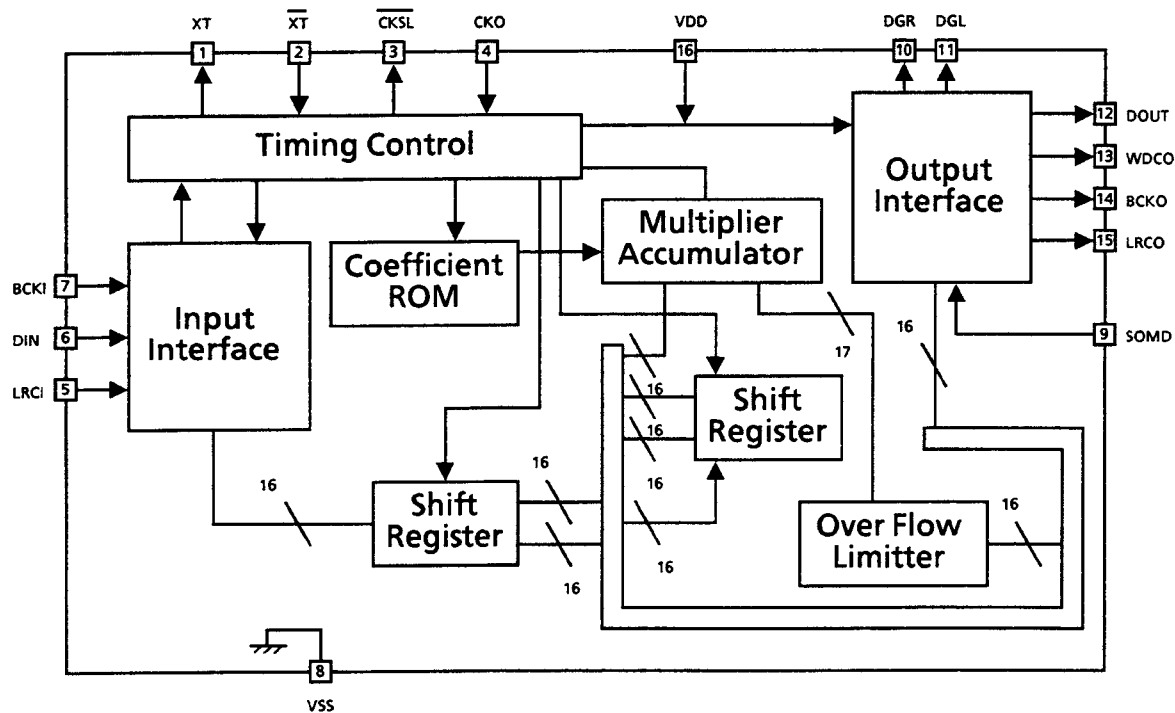
■ μ PD6376GX (IC678) : D/A Converter

Block Diagram



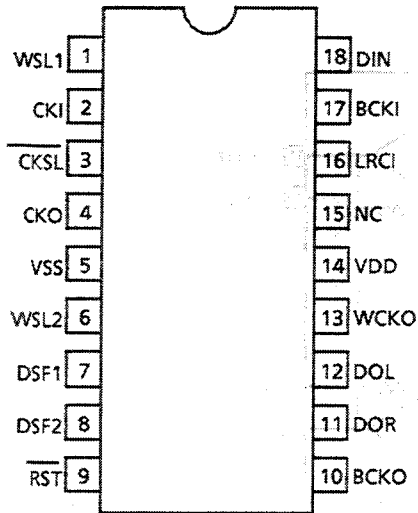
■ SM5807EP (IC675) : Digital Filter

Block Diagram

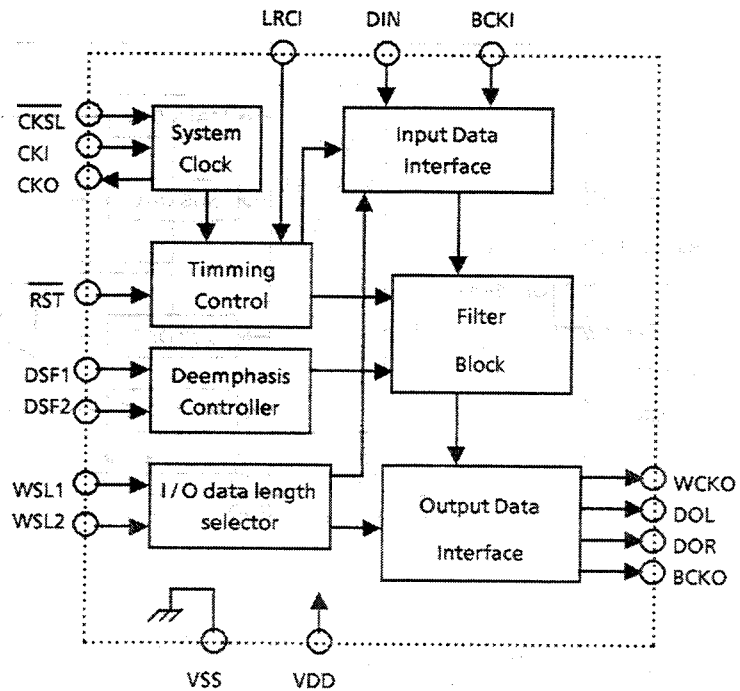


■ SM5840EP (IC674): Digital Filter

1. Terminal Layout

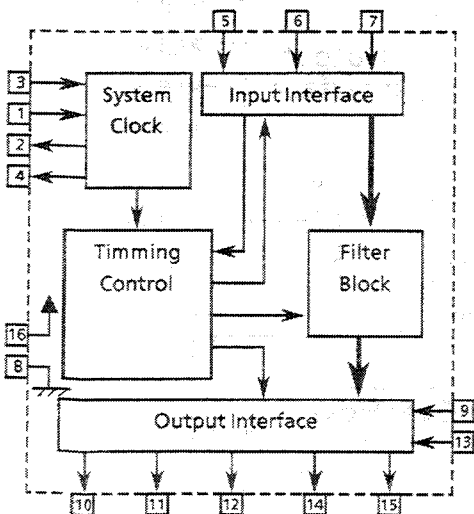


2. Internal Block Diagram



■ SM5818AP (IC404) : 8 Times Over Sampling Digital Filter

1. Terminal Layout

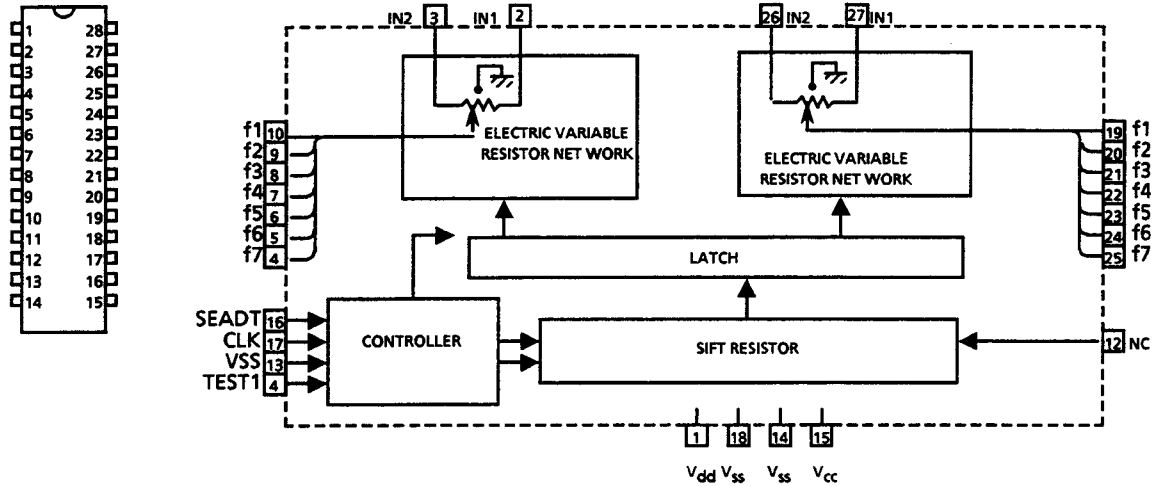


2. Pin Functions

Pin No.	Symbol	I/O	Function
1	XT	I	X'tal input CKSL = H:384fs
2	XT	O	X'tal output CKSL = L:192fs
3	CKSL	I	Changeover the operational frequency
4	CKO	O	Clock output
5	LRCI	I	Sync. clock output of fs
6	DIN	I	Serial data input
7	BCKI	I	Bit clock input
8	VSS	—	GND
9	OMOD1	I	H:18,20 bits output mode / L:16 bits
10	DG	O	Degrch signal output (8fs rate)
11	DOL	O	Lch serial data output
12	DOR	O	Rch serial data output
13	OMOD2	I	(9pin"H") H:18bits output L:20bits output (9pin"L") H:16bits output L:16bits output
14	WCKO	O	Word clock output (8fs rate)
15	BCKO	O	Bit clock output (192fs rate)
16	VDD	—	Power supply

■ LC7522(IC504) : Variable Resistor for SEA Control

1. Terminal Layout 2. Block Diagram

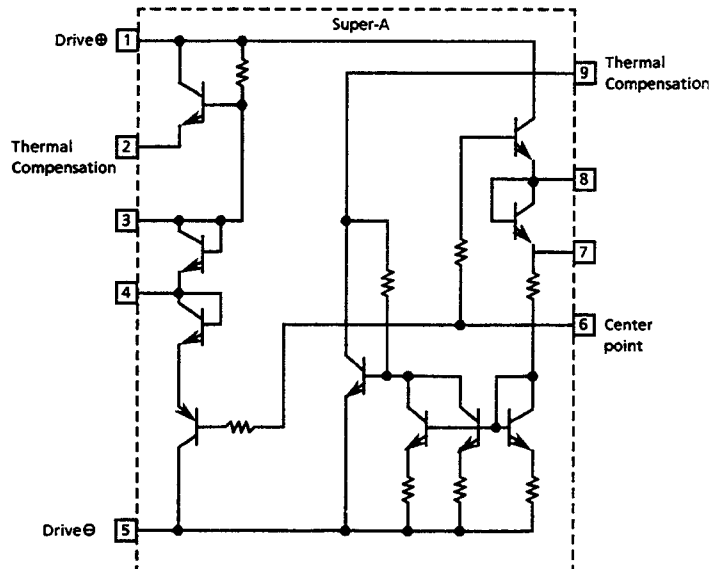
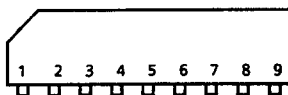


3. Pin Functions

Pin No.	Symbol	Function
1	V_{DD}	Power supply (+7V)
18	GND	Ground.
13,14	V_{SS}	Power supply (-7V)
15	V_{CC}	Power supply (+5V)
2,27	IN 1	Audio signal input
3, 26	IN 2	The inversion signal of the operational amplifier inputs to IN 1 normally. The non-inversion signal of the operational amplifier inputs to IN 2 normally.
16	SEA DT	Data input from the CPU. Schmitt inverter type
17	SEA CLK	Clock signal input from the CPU. Schmitt inverter type
4~10 19~25	f1~f7	For connect to band-pass filter. f1~f7x2 (Left and Right)
11	NC	Not used
12	NC	Not used
28	NC	Not used

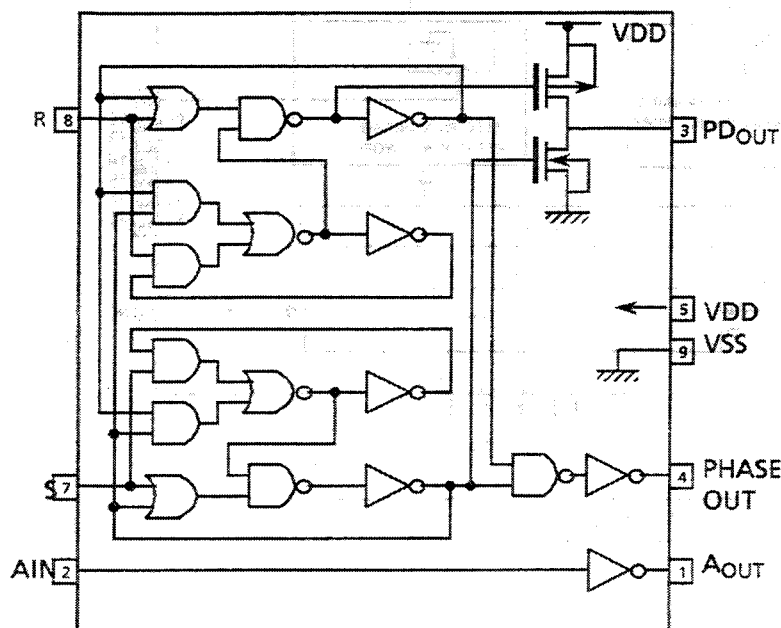
■ VC5022-2 (IC701,702) : Super - A

1. Terminal Layout 2. Block Diagram



■ TC5081AP(IC657) : Phase detector for the PLL synthesizer

1. Internal Blockdiagram

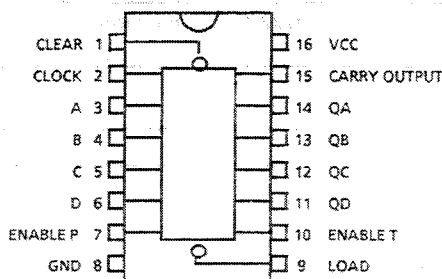


2. Pin Functions

Pin NO	Function
1	Inverted output of AIN
2	Pulse input
3	Output the positive and negative pulses which are proportion to phase difference of input R,S. High impedance both phase of R and S are the same.
4	"L" while it is output from PDout.
5	Power supply
6	Non connection
7	Pulse input (Phase detector input)
8	Pulse input (Phase detector input)
9	GND

■ TC74HC163AP (IC658,659) : Synchronous Presettable 4-Bit Counter

1. Terminal Layout



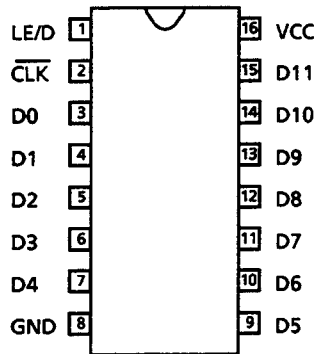
2. Function Table

Inputs					Outputs				Function
CLR	LD	PE	TE	CK	QA	QB	QC	QD	
L	x	x	x		L	L	L	L	Reset to "0"
H	L	x	x		A	B	C	D	Preset data
H	H	x	L		No change				No count
H	H	L	x		No change				No count
H	H	H	H		Count up				Count up
x	H	x	x		No change				No count

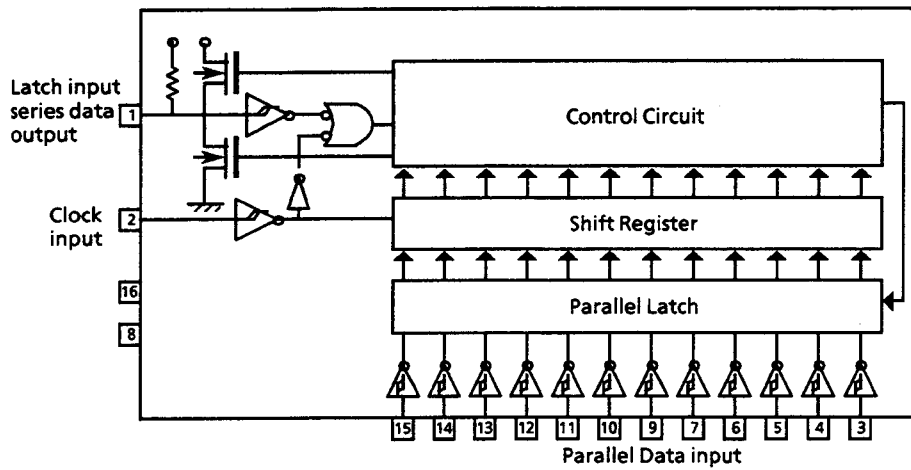
Note x : Don't care
A,B,C,D: Logic level of data inputs

■ M66007P (IC402) : 12 bits Input Expander

1. Terminal Layout

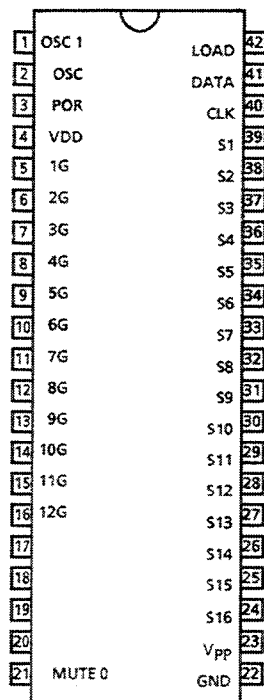


2. Block Diagram



■ MSC7112-01SS (IC465) : Flourescent Dispaly Driver

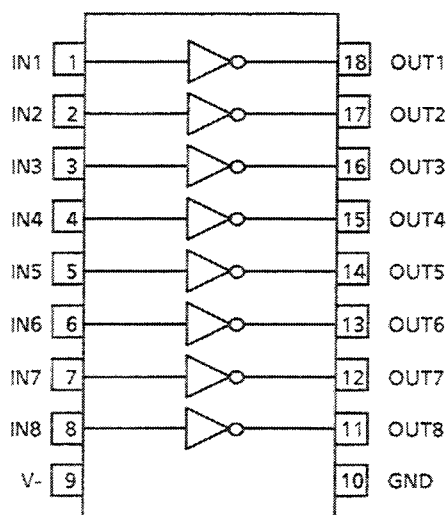
1. Terminal Layout



2. Pin Functions

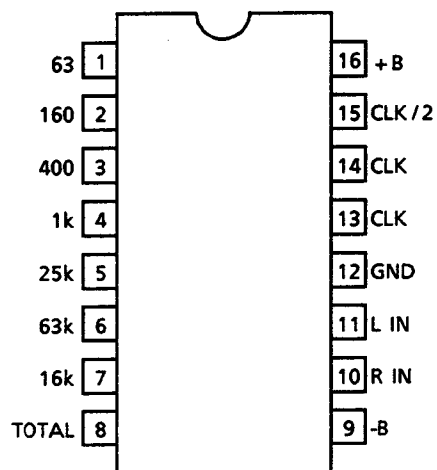
Pin No.	Pin Name	I/O	Functions
1 2	OSC 1 OSC 0	I O	Input to the oscillator circuit. Oscillator circuit is made up by connecting an external capacitor and resistor.
3	POR	I	Reset signal input to the internal logic circuit when turning on.
4	V _{DD}	—	Power supply.
5~16	D1~D12	O	FL display tube drive signal.
17~21	LED 1~ LED 5	O	LED drive signal : Not use
22	GND	—	GND.
23	V _{PP}	—	V _{DD} - V _{PP} : Power supply for the FL drive circuit.
24~39	S1~S16	O	FL display tube drive signal.
40	CLK	I	Clock signal to the shift register.
41	DATA IN	I	Display data to the shift register.
42	LOAD	I	Latch clock signal for the display data.

■ MSL915ARS (IC463,464) : Inverter



■ XR1091DCP (IC432) : Display Filter

1. Terminal Layout

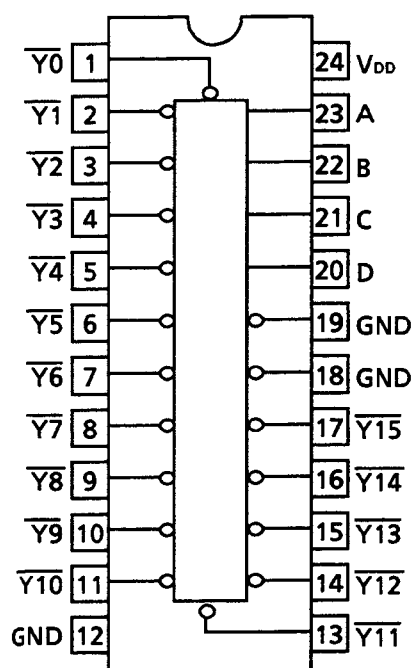


2. Pin Functions

Pin No.	Symbol	Function
1	63	Peak hold output of 63Hz band-pass filter
2	160	Peak hold output of 160Hz band-pass filter
3	400	Peak hold output of 400Hz band-pass filter
4	1k	Peak hold output of 1kHz band-pass filter
5	25k	Peak hold output of 25kHz band-pass filter
6	63k	Peak hold output of 63kHz band-pass filter
7	16k	Peak hold output of 16Hz band-pass filter
8	TOTAL	Total frequency output (peak hold)
9	-B	Power supply (-6V)
10	R IN	Right channel input
11	L IN	Left channel input
12	GND	Ground
13	CLK	Connecting capacitor for clock
14	CLK	Connecting resistor to pin 13 for clock
15	CLK	Not used
16	+B	Power supply (+6V)

■ TC74HC154P (IC462) : Decoder

1. Terminal Layout



2. Function Table

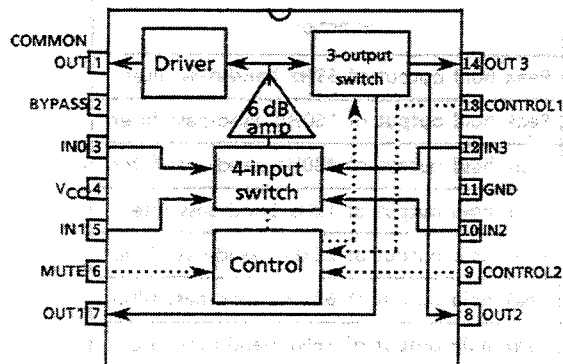
Input						Output
G1	G2	D	C	B	A	
L	L	L	L	L	L	NC
L	L	L	L	L	H	NC
L	L	L	L	H	L	NC
L	L	L	L	H	H	NC
L	L	L	H	L	L	NC
L	L	L	H	L	H	11G
L	L	L	H	H	L	10G
L	L	L	H	H	H	9G
L	L	H	L	L	L	8G
L	L	H	L	L	H	7G
L	L	H	L	H	L	6G
L	L	H	L	H	H	5G
L	L	H	H	L	L	4G
L	L	H	H	L	H	3G
L	L	H	H	H	L	2G
L	L	H	H	H	H	1G
x	H	x	x	x	x	—
H	x	x	x	x	x	—

x : Don't Care

■ LA7951 (IC474,475,483) : 4 inputs-4 outputs Video Switch with 6dB Video Amp.

1. Terminal Layout & Block Diagram

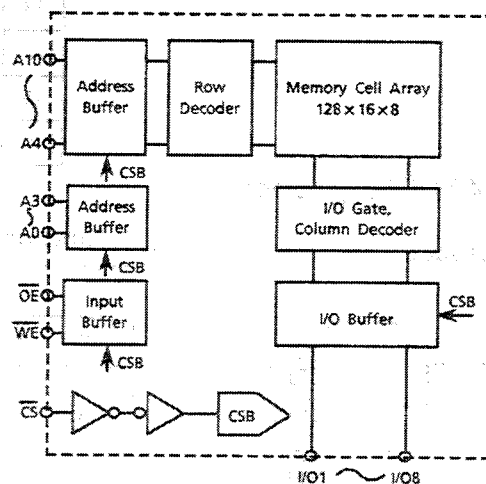
2. Logic Value table



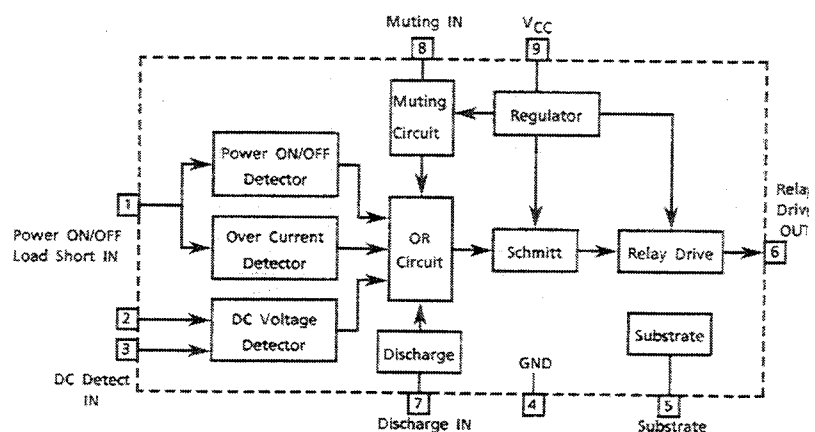
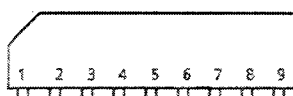
CONTROL			INPUT SIGNAL				OUTPUT SIGNAL			
MUTE (pin6)	1 (pin13)	2 (pin9)	0 (pin3)	1 (pin5)	2 (pin10)	3 (pin12)	COMMON (pin1)	1 (pin7)	2 (pin8)	3 (pin14)
L	-	-	OFF	OFF	OFF	OFF	ON	OFF	OFF	OFF
H	L	L	ON	OFF	OFF	OFF	ON	ON	ON	ON
H	L	H	OFF	ON	OFF	OFF	ON	OFF	ON	ON
H	H	L	OFF	OFF	ON	OFF	ON	ON	OFF	ON
H	H	H	OFF	OFF	OFF	ON	ON	ON	ON	OFF

■ LC3517BS-15 (IC403): Static RAM

A7	1	24	Vcc
A6	2	23	A8
A5	3	22	A9
A4	4	21	WE
A3	5	20	OE
A2	6	19	A10
A1	7	18	CS
A0	8	17	I/O 8
I/O 1	9	16	I/O 7
I/O 2	10	15	I/O 6
I/O 3	11	14	I/O 5
GND	12	13	I/O 4

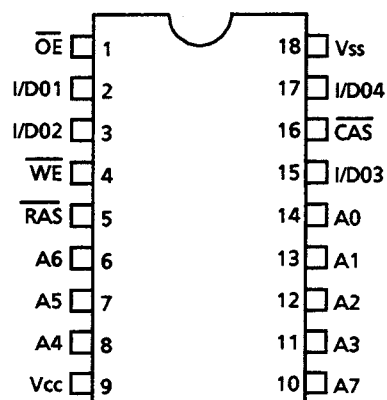


■ TA7317P (IC901,951) : Protector

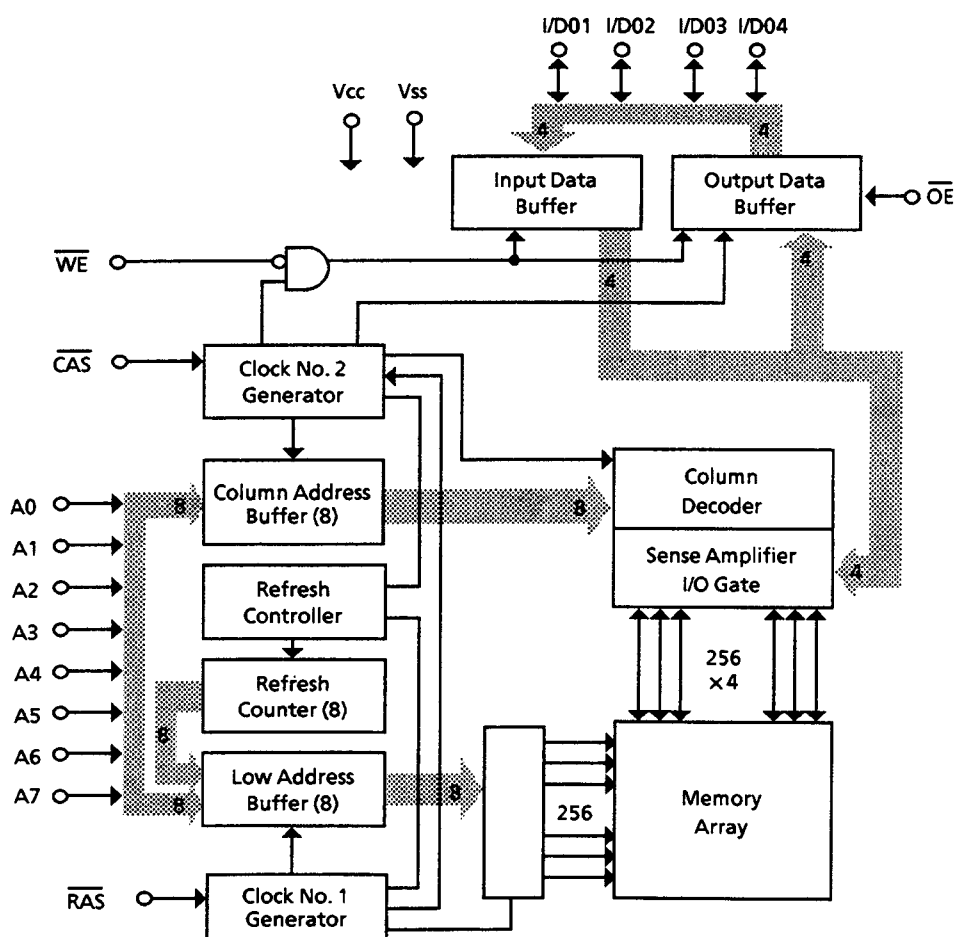


■ LH2464-12(IC302): 65536words × 4 Bits Dynamic RAM

(1) Terminal Layout

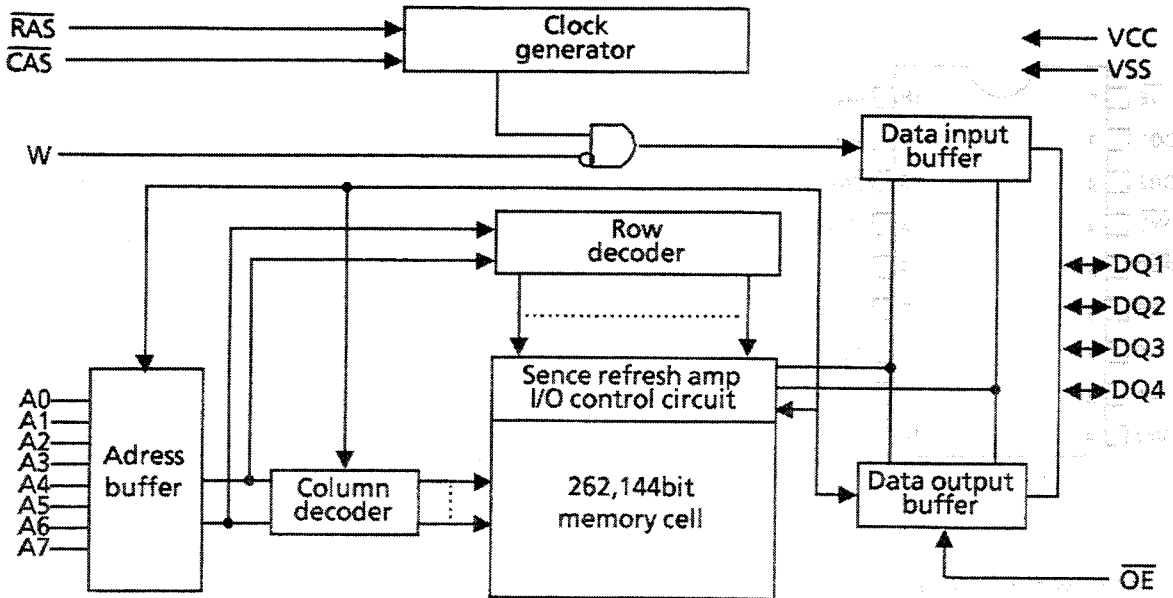


(2) Internal Block Diagram



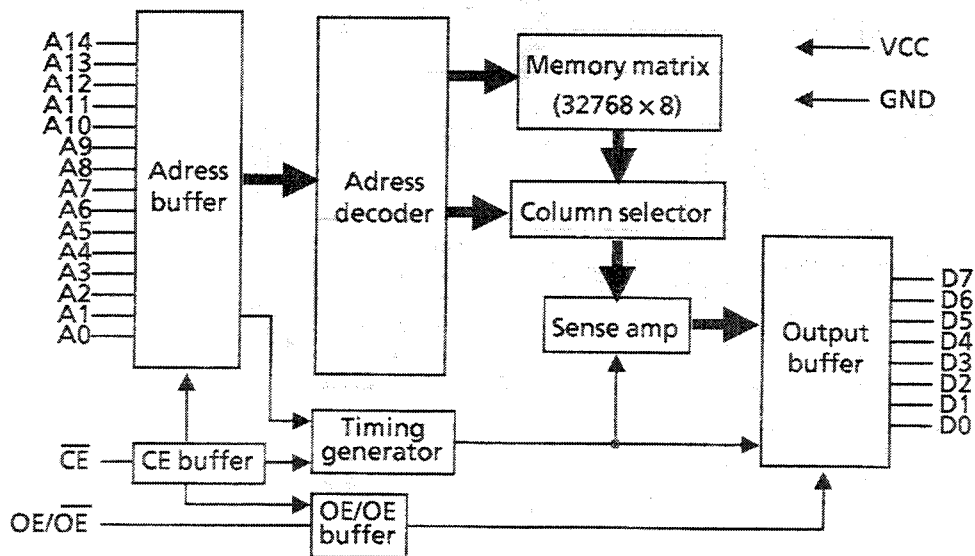
■ LM33464G-12 (IC671,672) : 256K (32K × 8)bit mask ROM

1. Internal Block Diagram



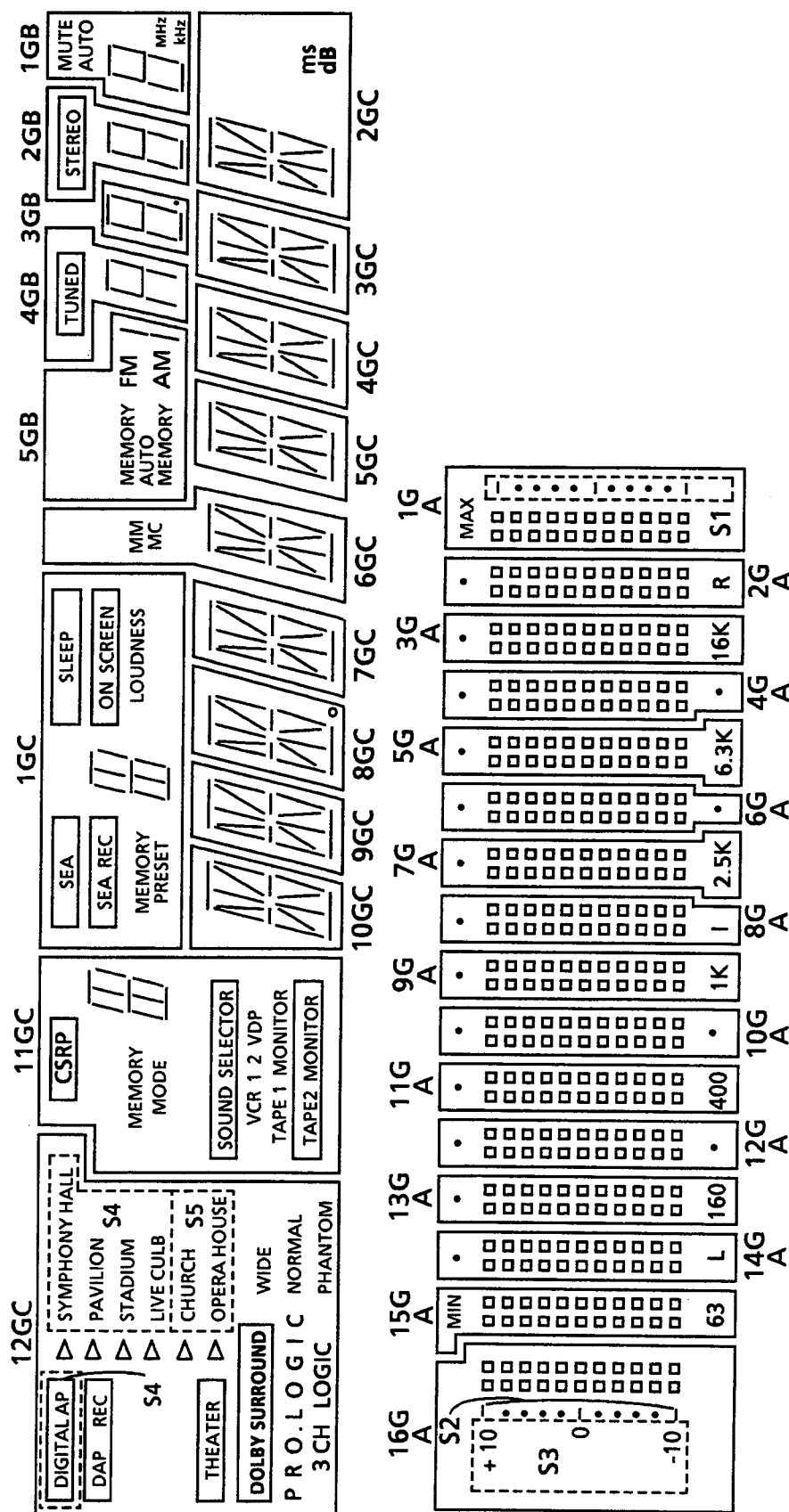
■ LH535931 (IC406) : 256K(64K × 4) bit D-RAM

1. Internal Block Diagram



Internal wiring of FL Display

Terminal Layout



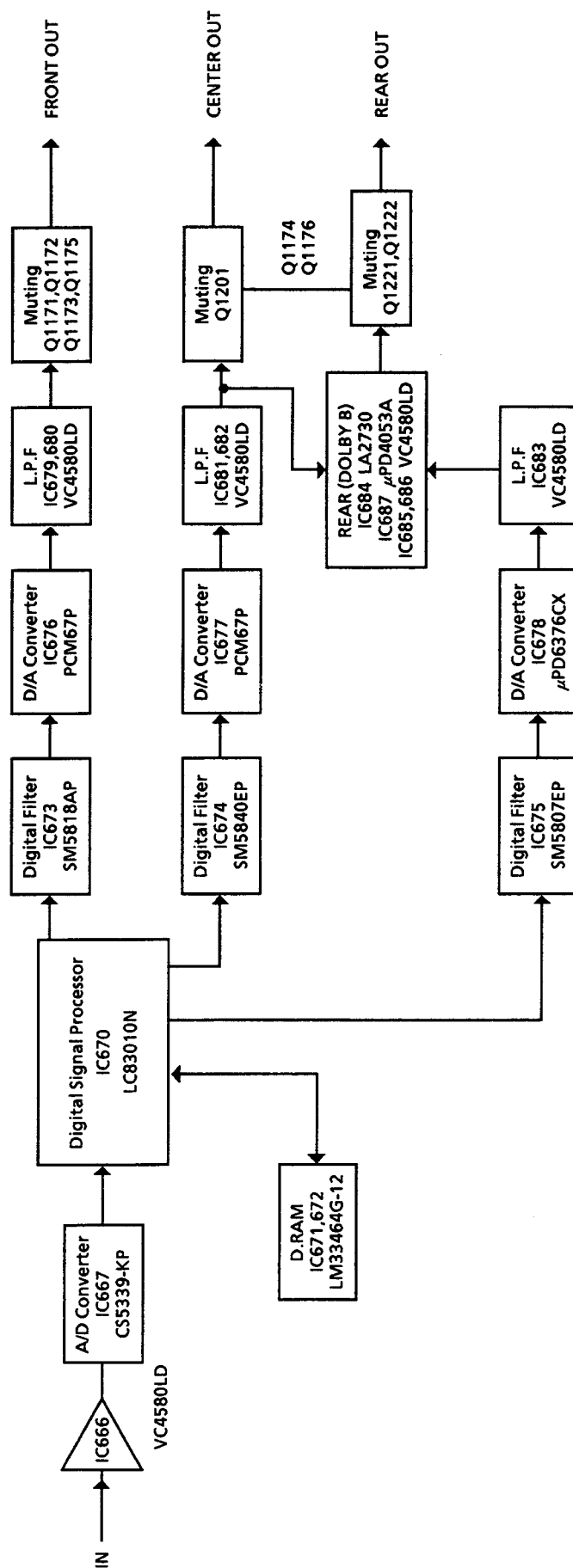
Grid-Anode assignment (B)

	5GB	4GB	3GB	2GB	1GB
P25	—	TUNED	Dp	STEREO	MUTE AUTO
P26	AUTO MEMORY (下)	a	a	a	—
P27	—	b	b	b	MHz
P28	MEMORY (上)	c	c	c	kHz
P29	—	d	d	d	g
P30	FM	e	e	e	c,f
P31	AM	f	f	f	b,e
P32	b,c	g	g	g	a,d

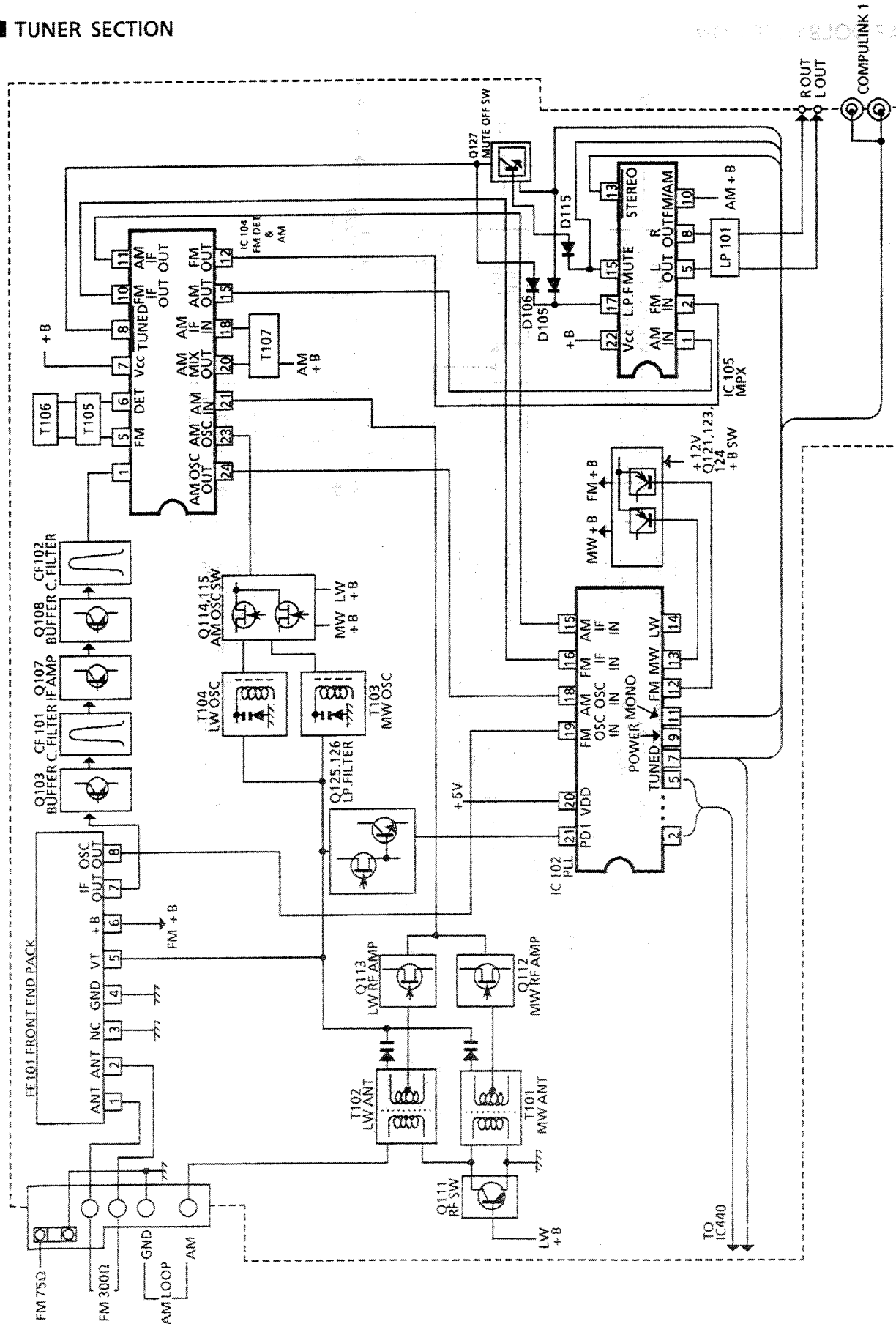
Grid-Anode assignment (C)

	12GC	11GC	10GC	9GC	8GC	7GC	6GC	5GC	4GC	3GC	2GC	1GC
P33	S4	b,c	a	a	a	a	a	a	a	a	a	a
P34	DAP REC	d	b	b	b	b	b	b	b	b	b	b
P35	THEATER	e,f	c	c	c	c	c	c	c	c	c	c
P36	DOLBY SURROUND	g	d	d	d	d	d	d	d	d	d	d
P37	PRO -LOGIC	h	e	e	e	e	e	e	e	e	e	e
P38	3 CH LOGIC	j	f	f	f	f	f	f	f	f	f	f
P39	WIDE	a MODE	g	g	g	g	g	g	g	g	g	g
P40	NORMAL	CSRP	h	h	h	h	h	h	h	h	h	h
P41	PHANTOM	MEMORY	j	j	j	j	j	j	j	j	j	j
P42	S5	SOUND SELECTOR	k	k	k	k	k	k	k	k	k	SEA
P43	S6	VCR	m	m	m	m	m	m	m	m	m	SEA REC
P44	S7	1	n	n	n	n	n	n	n	n	n	MEMORY
P45	S8	2	p	p	p	p	p	p	p	p	p	PRESET
P46	S9	VDP	r	r	r	r	r	r	r	r	r	SLEEP
P47	S10	TAPE1 MONITOR	—	—	Dp	—	MM	—	—	—	ms	ON SCREEN
P48	S11	TAPE 2 MONITER	—	—	—	—	MC	—	—	—	db	LOUDNESS

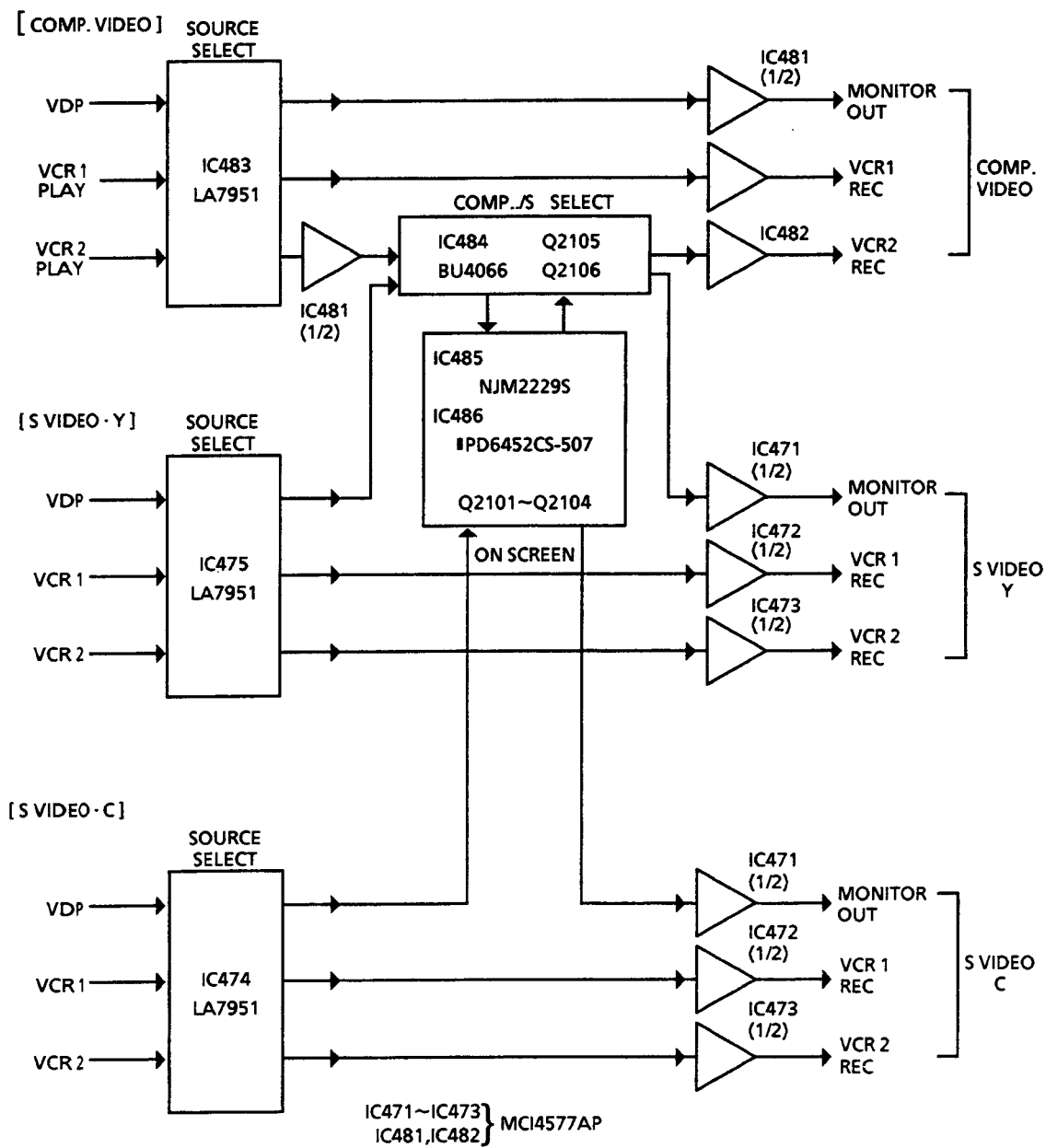
■ DAP/DOLBY SECTION



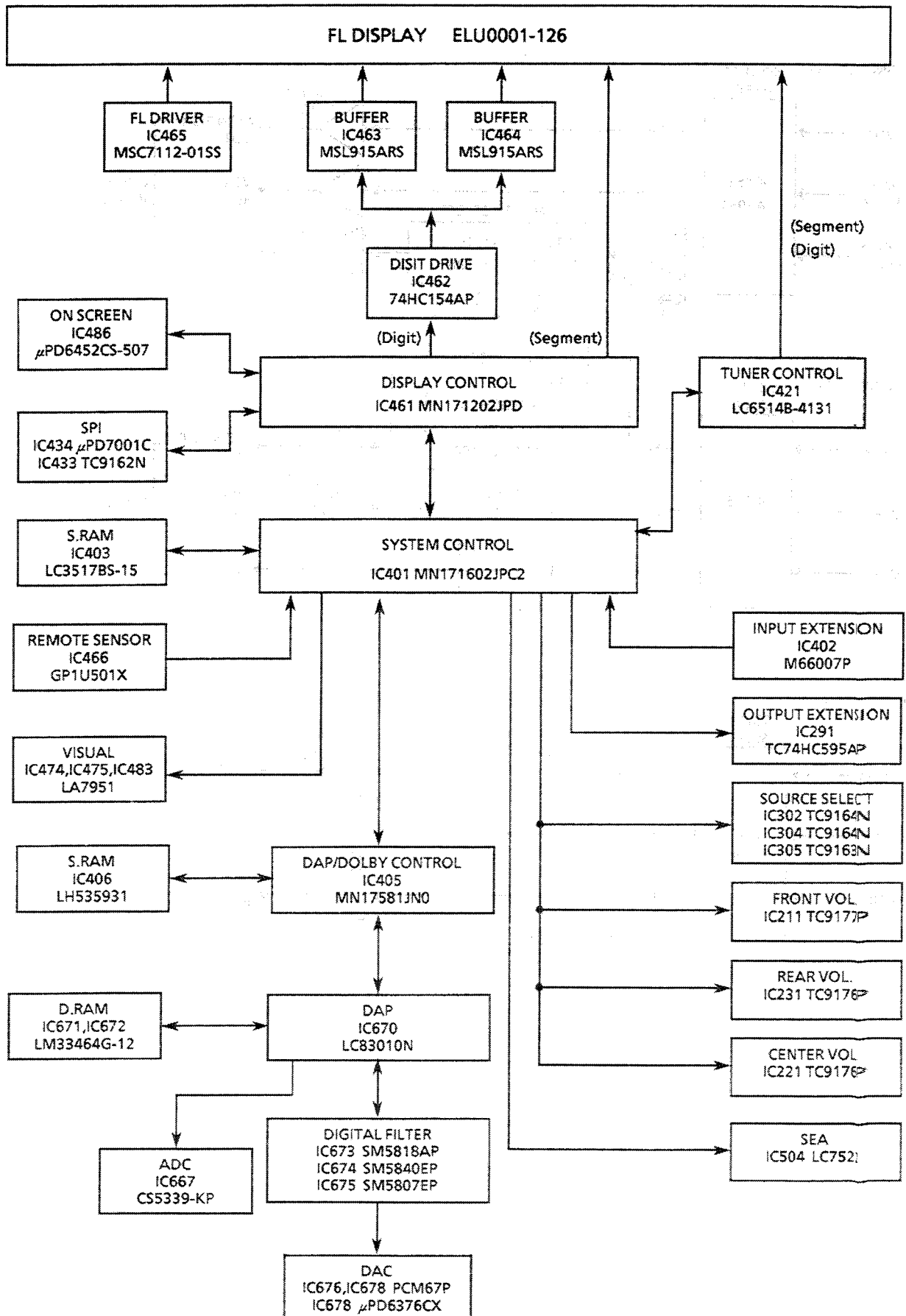
■ TUNER SECTION



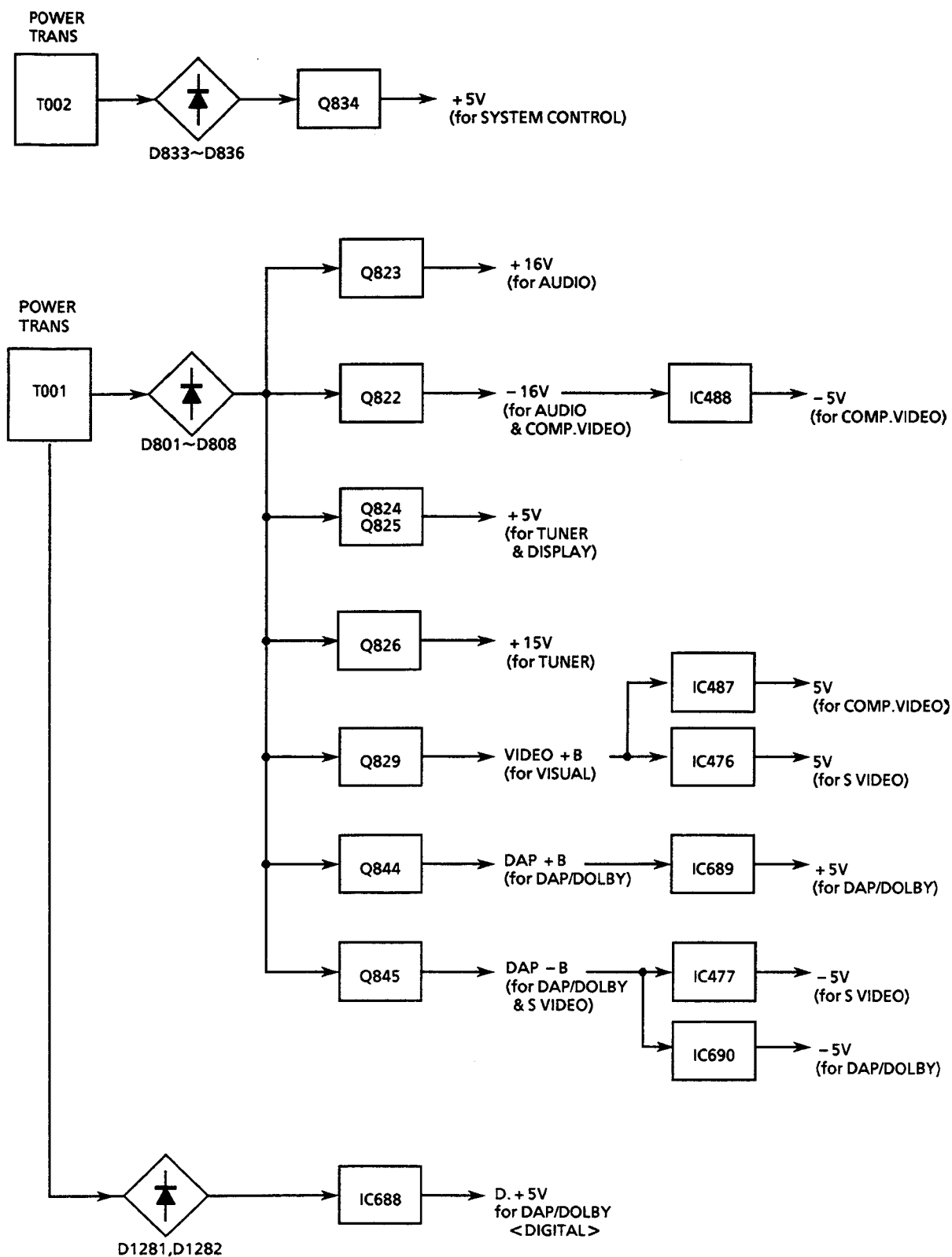
■ VISUAL SECTION



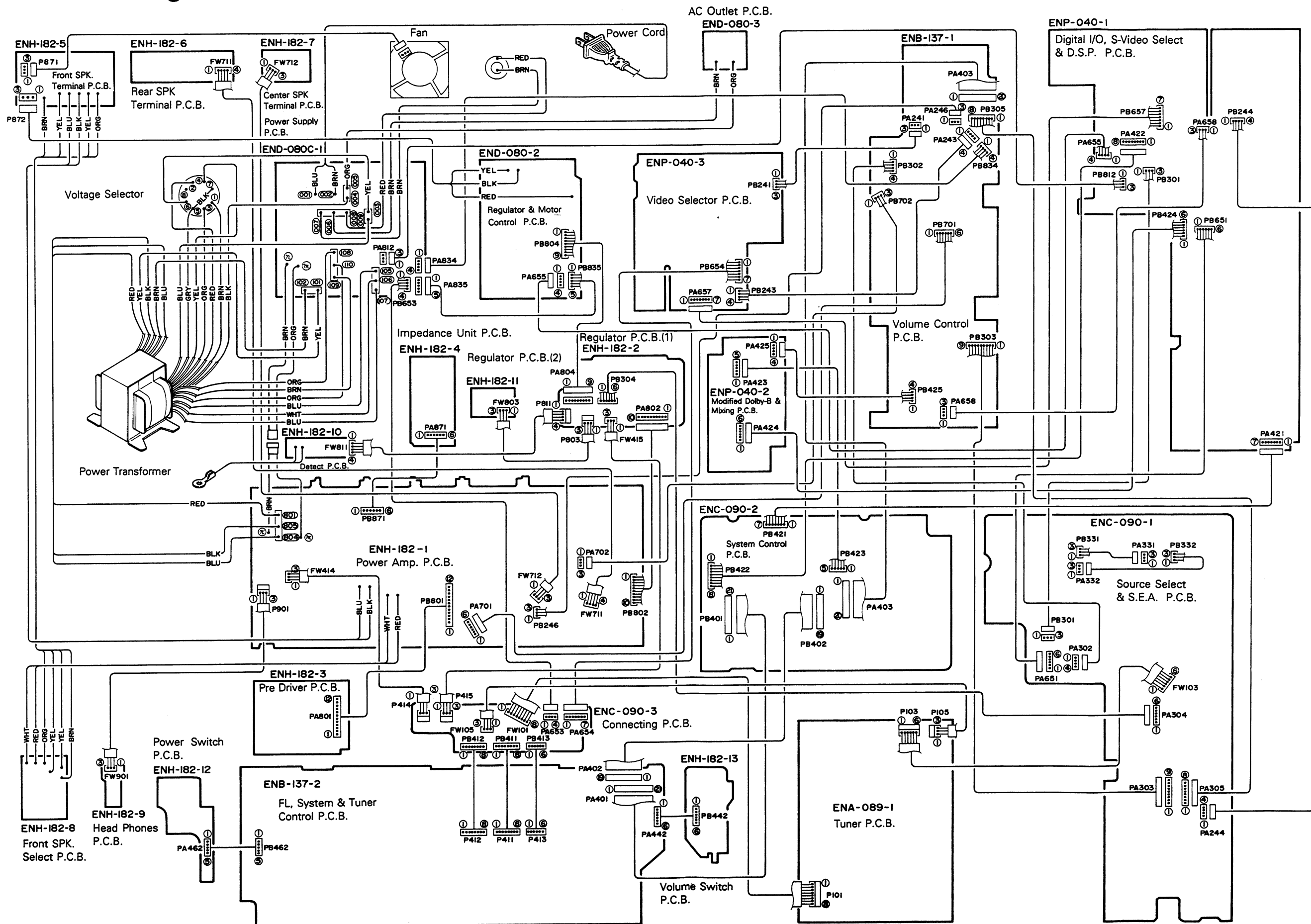
■ CONTROL SECTION

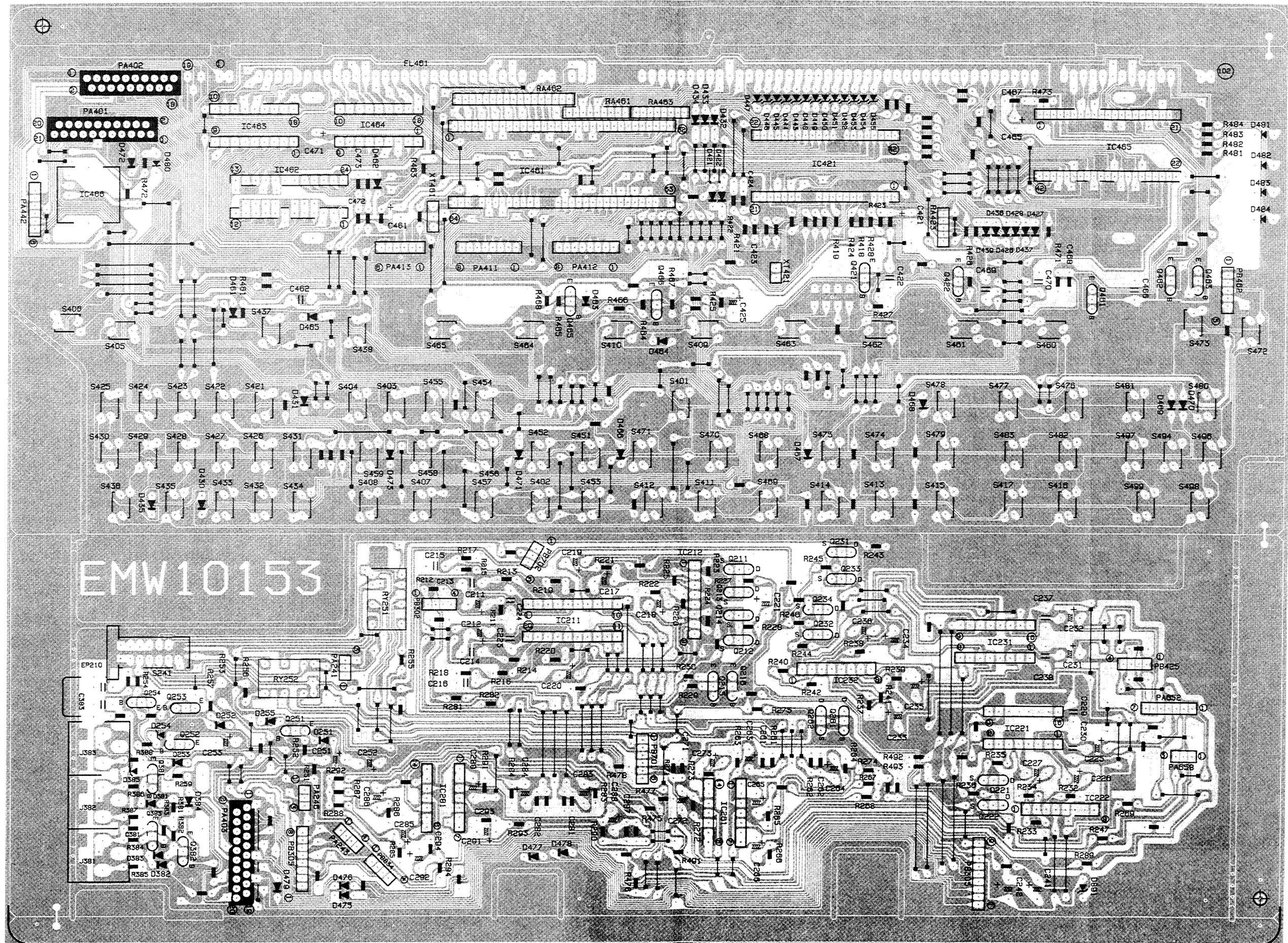


■ DC POWER SUPPLY



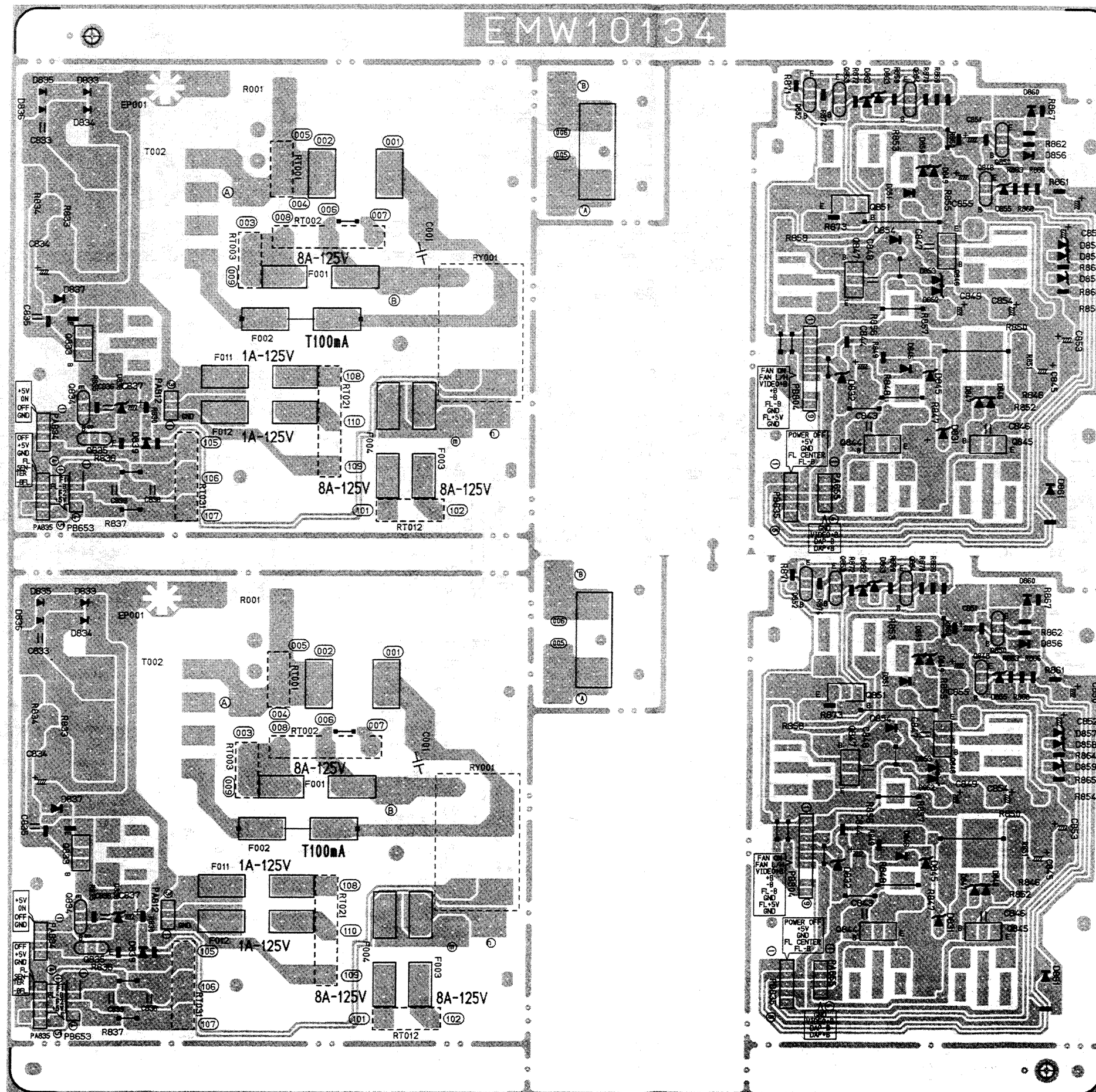
Connection Diagram





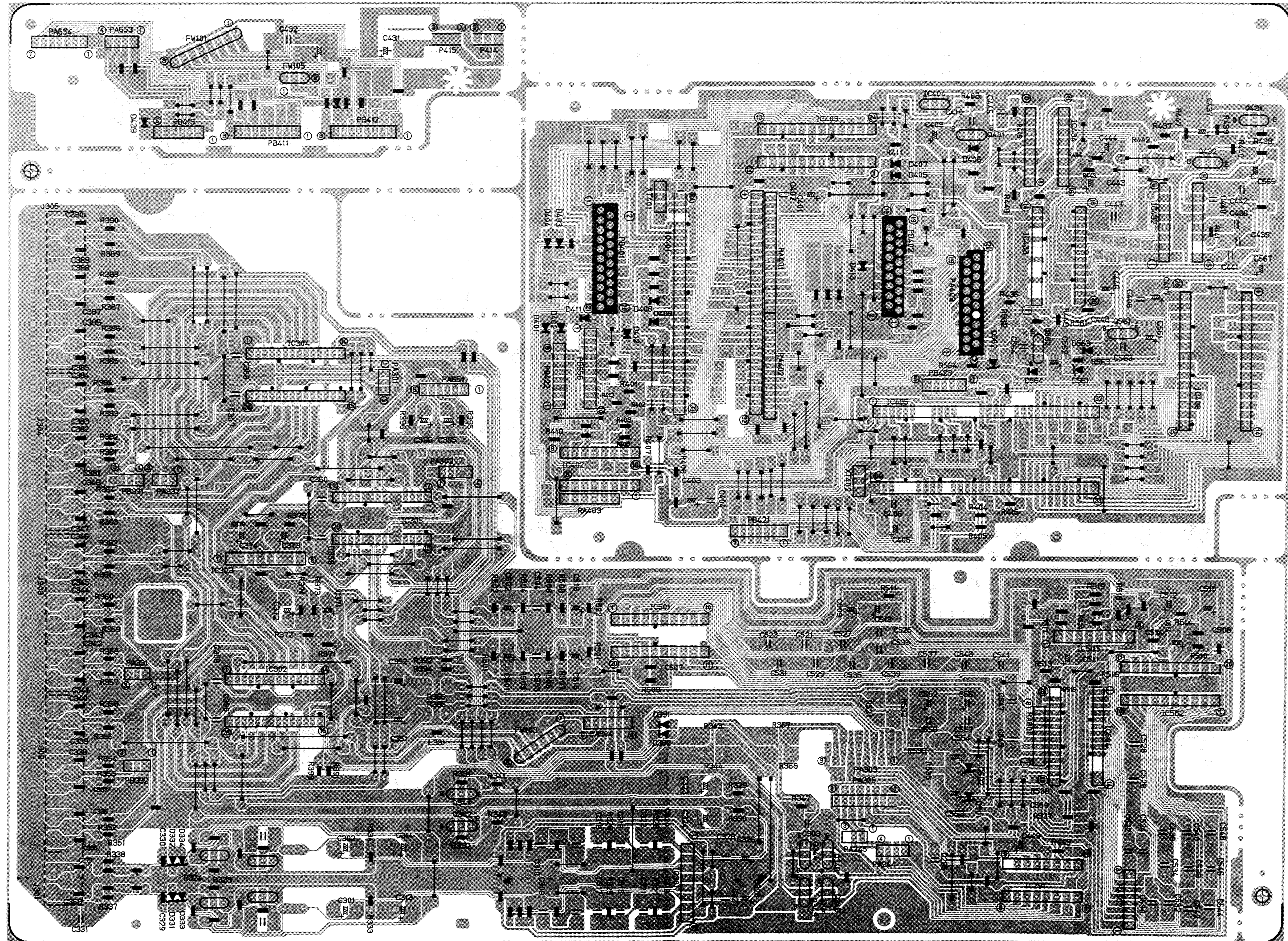
The image displays two views of the E11849-303 circuit board. The top view (left) and bottom view (right) show a complex arrangement of electronic components. Key components labeled include resistors (R100, R101, R102, R103, R104, R105, R106, R107, R108, R109, R110, R111, R112, R113, R114, R115, R116, R117, R118, R119, R120, R121, R122, R123, R124, R125, R126, R127, R128, R129, R130, R131, R132, R133, R134, R135, R136, R137, R138, R139, R140, R141, R142, R143, R144, R145, R146, R147, R148, R149, R150, R151, R152, R153, R154, R155, R156, R157, R158, R159, R160, R161, R162, R163, R164, R165, R166, R167, R168, R169, R170, R171, R172, R173, R174, R175, R176, R177, R178, R179, R180, R181, R182, R183, R184, R185, R186, R187, R188, R189, R190, R191, R192, R193, R194, R195, R196, R197, R198, R199, R200, R201, R202, R203, R204, R205, R206, R207, R208, R209, R210, R211, R212, R213, R214, R215, R216, R217, R218, R219, R220, R221, R222, R223, R224, R225, R226, R227, R228, R229, R230, R231, R232, R233, R234, R235, R236, R237, R238, R239, R240, R241, R242, R243, R244, R245, R246, R247, R248, R249, R250, R251, R252, R253, R254, R255, R256, R257, R258, R259, R260, R261, R262, R263, R264, R265, R266, R267, R268, R269, R270, R271, R272, R273, R274, R275, R276, R277, R278, R279, R280, R281, R282, R283, R284, R285, R286, R287, R288, R289, R290, R291, R292, R293, R294, R295, R296, R297, R298, R299, R300, R301, R302, R303, R304, R305, R306, R307, R308, R309, R310, R311, R312, R313, R314, R315, R316, R317, R318, R319, R320, R321, R322, R323, R324, R325, R326, R327, R328, R329, R330, R331, R332, R333, R334, R335, R336, R337, R338, R339, R340, R341, R342, R343, R344, R345, R346, R347, R348, R349, R350, R351, R352, R353, R354, R355, R356, R357, R358, R359, R360, R361, R362, R363, R364, R365, R366, R367, R368, R369, R370, R371, R372, R373, R374, R375, R376, R377, R378, R379, R380, R381, R382, R383, R384, R385, R386, R387, R388, R389, R390, R391, R392, R393, R394, R395, R396, R397, R398, R399, R400, R401, R402, R403, R404, R405, R406, R407, R408, R409, R410, R411, R412, R413, R414, R415, R416, R417, R418, R419, R420, R421, R422, R423, R424, R425, R426, R427, R428, R429, R430, R431, R432, R433, R434, R435, R436, R437, R438, R439, R440, R441, R442, R443, R444, R445, R446, R447, R448, R449, R450, R451, R452, R453, R454, R455, R456, R457, R458, R459, R460, R461, R462, R463, R464, R465, R466, R467, R468, R469, R470, R471, R472, R473, R474, R475, R476, R477, R478, R479, R480, R481, R482, R483, R484, R485, R486, R487, R488, R489, R490, R491, R492, R493, R494, R495, R496, R497, R498, R499, R500, R501, R502, R503, R504, R505, R506, R507, R508, R509, R510, R511, R512, R513, R514, R515, R516, R517, R518, R519, R520, R521, R522, R523, R524, R525, R526, R527, R528, R529, R530, R531, R532, R533, R534, R535, R536, R537, R538, R539, R540, R541, R542, R543, R544, R545, R546, R547, R548, R549, R550, R551, R552, R553, R554, R555, R556, R557, R558, R559, R560, R561, R562, R563, R564, R565, R566, R567, R568, R569, R570, R571, R572, R573, R574, R575, R576, R577, R578, R579, R580, R581, R582, R583, R584, R585, R586, R587, R588, R589, R590, R591, R592, R593, R594, R595, R596, R597, R598, R599, R600, R601, R602, R603, R604, R605, R606, R607, R608, R609, R610, R611, R612, R613, R614, R615, R616, R617, R618, R619, R620, R621, R622, R623, R624, R625, R626, R627, R628, R629, R630, R631, R632, R633, R634, R635, R636, R637, R638, R639, R640, R641, R642, R643, R644, R645, R646, R647, R648, R649, R650, R651, R652, R653, R654, R655, R656, R657, R658, R659, R660, R661, R662, R663, R664, R665, R666, R667, R668, R669, R670, R671, R672, R673, R674, R675, R676, R677, R678, R679, R680, R681, R682, R683, R684, R685, R686, R687, R688, R689, R690, R691, R692, R693, R694, R695, R696, R697, R698, R699, R700, R701, R702, R703, R704, R705, R706, R707, R708, R709, R710, R711, R712, R713, R714, R715, R716, R717, R718, R719, R720, R721, R722, R723, R724, R725, R726, R727, R728, R729, R730, R731, R732, R733, R734, R735, R736, R737, R738, R739, R740, R741, R742, R743, R744, R745, R746, R747, R748, R749, R750, R751, R752, R753, R754, R755, R756, R757, R758, R759, R760, R761, R762, R763, R764, R765, R766, R767, R768, R769, R770, R771, R772, R773, R774, R775, R776, R777, R778, R779, R780, R781, R782, R783, R784, R785, R786, R787, R788, R789, R790, R791, R792, R793, R794, R795, R796, R797, R798, R799, R800, R801, R802, R803, R804, R805, R806, R807, R808, R809, R810, R811, R812, R813, R814, R815, R816, R817, R818, R819, R820, R821, R822, R823, R824, R825, R826, R827, R828, R829, R830, R831, R832, R833, R834, R835, R836, R837, R838, R839, R840, R841, R842, R843, R844, R845, R846, R847, R848, R849, R850, R851, R852, R853, R854, R855, R856, R857, R858, R859, R860, R861, R862, R863, R864, R865, R866, R867, R868, R869, R870, R871, R872, R873, R874, R875, R876, R877, R878, R879, R880, R881, R882, R883, R884, R885, R886, R887, R888, R889, R890, R891, R892, R893, R89

■ Power Supply P.C. Board (END-080)



RX-1050VTN
RX-1050VPTN

■ Source Selector, SEA & System Control (ENC-090)



EMW10150

PARTS LIST

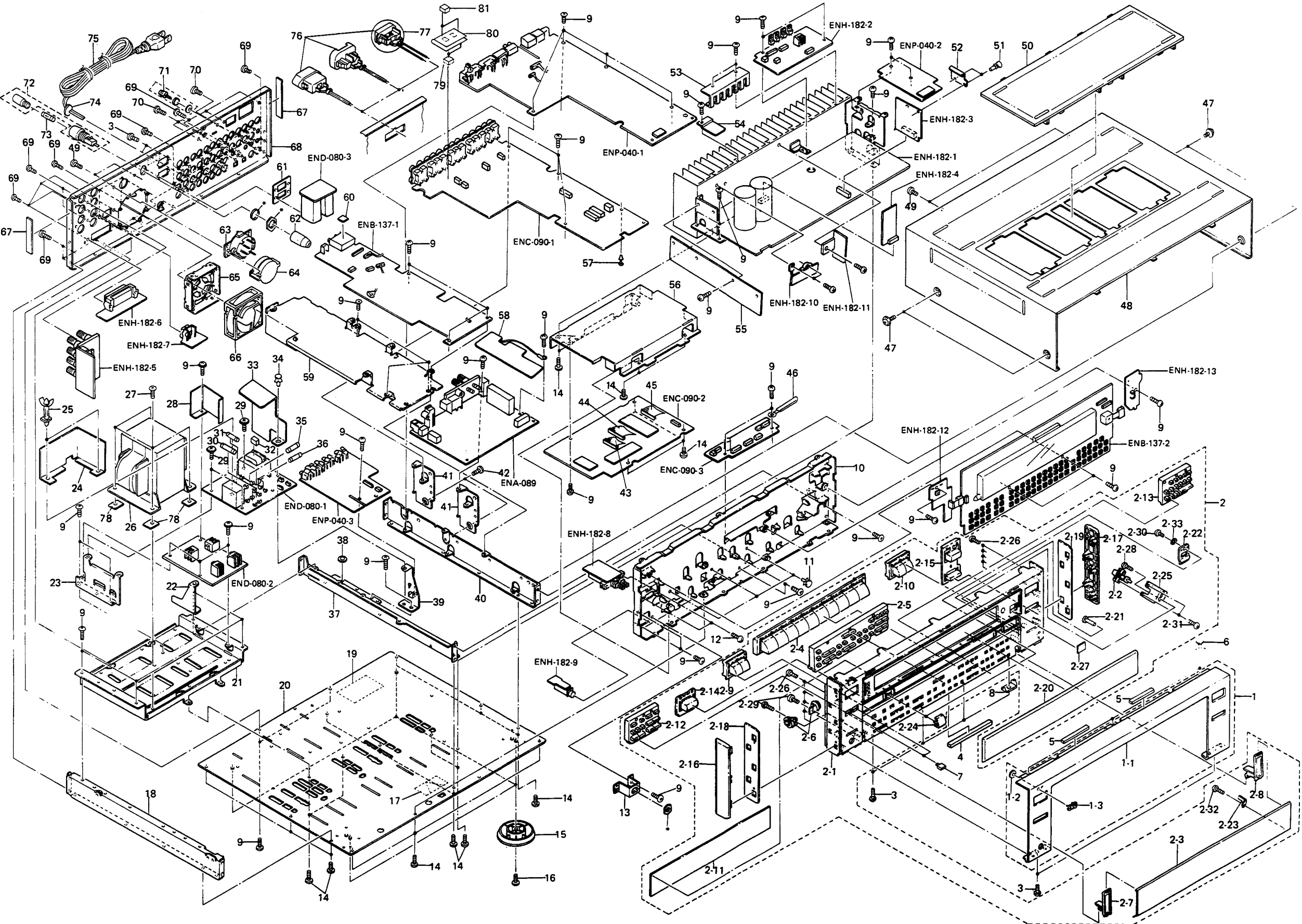
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T2L 27A9

(11-12-11)

General Exploded View and Parts List



※ mark indicates attached part.

■ Parts List

△	Item	Part Number	Part Name	Q'ty	Description	Areas
	1	EFP-RX1050VTNJS	Front Panel Ass'y	1		J, C
	1-1	EFP-RX1050VPTNES	Front Panel Ass'y	1		Except J, C
		E102455-002	Front Panel	1		J, C
		E102455-003	Front Panel	1		Except J, C
	1-2	E60912-003	Speed Nut	1		
	1-3	E72968-001	JVC Mark	1		
	2	E102457-004SA	Front Base Ass'y	1		
	2-1	E102457-004	Front Base	1		
	2-2	E03820-006	Push Switch	1		
	2-3	E207141-002	Door	1		
	2-4	E207143-001	Push Button	1	SOURCE (Center)	
	2-5	E207145-002	Push Button	1	SEA	
	2-6	E305654-002	Damper Ass'y	2		
	2-7	E307113-002	Door Hinge	1	Left	
	2-8	E307114-002	Door Hinge	1	Right	
	2-9	E307577-001	Push Button	1	SOURCE (Left)	
	2-10	E307577-002	Push Button	1	SOURCE (Right)	
	2-11	E307580-001	FL Screen	1		
	2-12	E307581-002	Push Button	1	DAP	
	2-13	E307582-001	Push Button	1	PRESET	
	2-14	E307583-001	Push Button	1	POWER	
	2-15	E307585-001	Push Button	1	VOLUME	
	2-16	E307587-001	Fitting	1	Left	
	2-17	E307587-002	Fitting	1	Right	
	2-18	E307588-001	Plate	1	Left	
	2-19	E307588-002	Plate	1	Right	
	2-20	E307702-004	Window Screen	1		
	2-21	E406134-008	Knock Pin	1		
	2-22	E406375-001	Leaf Spring	1		
	2-23	E406509-001	Earth Plate	1		
	2-24	E406663-001	Cap	2		
	2-25	E406664-001	Switch Bracket	1		
	2-26	E406714-001	Special Screw	10		
	2-27	E72436-006	Screen	1		
	2-28	SBSF3006Z	Screw	1		
	2-29	SBSF3008Z	Screw	2		
	2-30	SBSF3010N	Screw	1		
	2-31	SBST3006Z	Screw	2		
	2-32	SPSP2002Z	Screw	1		
	2-33	WLS3000N	Washer	1		
	3	SDSG3008M	Screw	6		Except J, C, PU
	4	SDSG3008M	Screw	8		J, C, PU
	5	EXO980007R50S13	Spacer	1		
	6	EXO078006N30S02	Spacer	2		
		E48729-009	Plastic Rivet	3		
	7	E406334-001SS	Speaker Button	2		
	8	E406508-001	Leaf Spring	1		
	9	SBSG3008CC	Screw	50		
	10	E102459-002	Front Bracket	1		
	11	E48729-007	Plastic Rivet	2		J, C
	12	E48729-007	Plastic Rivet	3		Except J, C
	13	SBST3006CC	Screw	2		
	14	E75471-001	Headphone Bracket	1		
	15	SBSG3006CC	Screw	23		
		E406472-001	Foot Ass'y	4		
	16	SBST3008Z	Screw	4	for Foot	
	17	E70281-001	Caution Label	1		J
		E70115-002	Caution Label	1		Except J
	18	E305167-002	Side Bracket	1	Left	
	19	E74925-001	Dolby Sheet	1		
	20	E11647-002	Bottom Plate	1		
	21	E25914-002	Trans Bracket	1		
	22	E406711-001	Bracket	1		
	23	E305208-001	Circuit Board Bracket	1		
	24	E307881-001	Shield Cover	1		Except J, C, PU

△	Item	Part Number	Part Name	Q'ty	Description	Areas
	25	E306232-002	Fastener	2		
	26	ETP1200-53JA	Power Transformer	1		J
		ETP1200-53CA	Power Transformer	1		C
		ETP1200-53FA	Power Transformer	1		PU
		ETP1200-53EA	Power Transformer	1		PA, PE, PEF, PG
	27	ETP1200-53EABS	Power Transformer	1		PBS
	28	E65389-006	Special Screw	4		
	29	E407002-001	Protector	1		PU
	30	GBSG3008CC	Screw	3		
		QMF51U1-8R0S	Fuse	2	F003, F004 (T8.0A / 125V)	J, C
	31	QMF51A2-6R3S	Fuse	2	F003, F004 (T6.3A / 250V)	Except J, C, PBS
		QMF51E2-6R3SBS	Fuse	2	F003, F004 (T6.3A / 250V)	PBS
		QMF51U1-8R0S	Fuse	1	F001 (T8.0A / 125V)	J, C
		QMF51A2-3R15S	Fuse	1	F001 (T3.15A / 250V)	PA, PE, PEF, PG
		QMF51E2-3R15SBS	Fuse	1	F001 (T3.15A / 250V)	PBS
	32	E306805-048	Spacer	1		J, C
		E306805-049	Spacer	1		Except J, C, PU
		E306805-050	Spacer	1		PU
	33	E406945-001	Shield Bracket	1		
	34	E48729-020	Plastic Rivet	1		
	35	QMF51A2-R10S	Fuse	1	F002 (T100mA / 250V)	Except J, C, PBS
		QMF51E2-R10SBS	Fuse	1	F002 (T100mA / 250V)	PBS
	36	QMF51U1-1R0S	Fuse	2	F011, F012 (T1.0A / 125V)	J, C
		QMF51A2-R63S	Fuse	2	F011, F012 (T630mA / 250V)	Except J, C, PBS
		QMF51E2-R63SBS	Fuse	2	F011, F012 (T630mA / 250V)	PBS
	37	E305166-003	Center Bracket	1		
	38	E73967-010	Spacer	1		
	39	E74547-002	Bracket	1		
	40	E306251-001	Side Bracket	1	Right	
	41	E75472-003	Stay Bracket	2		
	42	SDSG3008CC	Screw	2		
	43	EWR1LE-59TT	Flat Wire	1	FW403	
	44	EWR1KE-47TT	Flat Wire	1	FW402	
	45	EWR1ME-44TT	Flat Wire	1	FW401	
	46	E72018-001	Wire Clamp	1		
	47	E61660-004	Special Screw	4	for Metal Cover	
	48	E12062-001	Metal Cover	1		J, C, PA, PG
		E12063-003	Metal Cover	1		PE, PEF, PBS, PU
	49	SBSG3008M	Screw	2		Except PU
		SBSG3008M	Screw	4		PU
	50	E24134-007	Grill	1		PE, PEF, PBS, PU
	51	E48729-008	Plastic Rivet	4		
	52	E406949-001	Protector	1		
	53	E74550-001	Leaf Spring	1		
	54	E406948-001	Bracket	1		
	55	E74832-001	Protect Sheet	1		
	56	E25915-002	Bracket	1		
	57	E406084-001	Fastener	1		
	58	E406880-001	Shield Plate	1		
	59	E207146-001	Shield Bracket	1		
	60	E3400-431	Spacer	1		
	61	E69589-008	Spacer	1		J
	62	E69291-001	Fuse Cover	1		PE, PEF, PU
	63	QSR0085-018	Voltage Selector	1		PU
	64	E302764-001	Voltage Selector Cover	1		PU
	65	E306248-002	Fan Plate	1		
	66	FBA06A24H1DS	DC Fan	1		
	67	EXO085010R10S	Spacer	2		
	68	E102460-009	Rear Panel	1		J, C
		E102460-010	Rear Panel	1		PU
		E102460-011	Rear Panel	1		PE, PEF
		E102460-012	Rear Panel	1		PA
		E102460-013	Rear Panel	1		PBS
		E102460-014	Rear Panel	1		PG
	69	E73273-006	Special Screw	39		

⚠	Item	Part Number	Part Name	Q'ty	Description	Areas
	70	SBST3006M	Screw	4		J, C, PA, PU
		SBST3006M	Screw	5		PEN, PEF, PG, PBS
	71	E70078-003	GND Terminal	1		
	72	QMG0301-003	Fuse Holder	1		PE, PEF, PU
⚠	73	QMF51A2-3R15S	Fuse	1	F005 (T3.15A / 250V)	PU
⚠		QMF51A2-1R25S	Fuse	1	F005 (T1.25A / 250V)	PE, PEF
⚠	74	QHS3876-162	Cord Stopper	1		Except PBS
⚠		QHS3876-162BS	Cord Stopper	1		PBS
⚠	75	QMP1D00-200H	Power Cord	1		J, C
⚠		QMP2560-244	Power Cord	1		PA
⚠		QMP39A0-200	Power Cord	1		PE, PEF, PG
⚠		QMP7520-200	Power Cord	1		PU
⚠		QMP9017-008BS	Power Cord	1		PBS
⚠	76	EMC0233-001	AC Outlet	1		PA
⚠		EMC0236-001	AC Outlet	1		PE, PEF, PG
⚠		EMC0237-001BS	AC Outlet	1		PBS
	77	E406079-001	AC Outlet Cover	1		PBS
	78	E406309-001	Spacer	4		
	79	E306805-055	Spacer	2		
	80	E407053-001	Shield Plate	1		
	81	E306805-056	Spacer	2		Except PG
	—	E61029-004	Number Label	1		J
	—	E67199-001	Fuse Caution Label	1		C
	—	E65507-001	Fuse Caution Label	1		J
	—	QZL1001-001	UL Label	1		
	—	E45858-002	CSA Label	1		C
	—	E70028-001	Approval Label	1		PE
	—	E74792-111	FTZ Label	1		PG

The Marks for Designated Areas

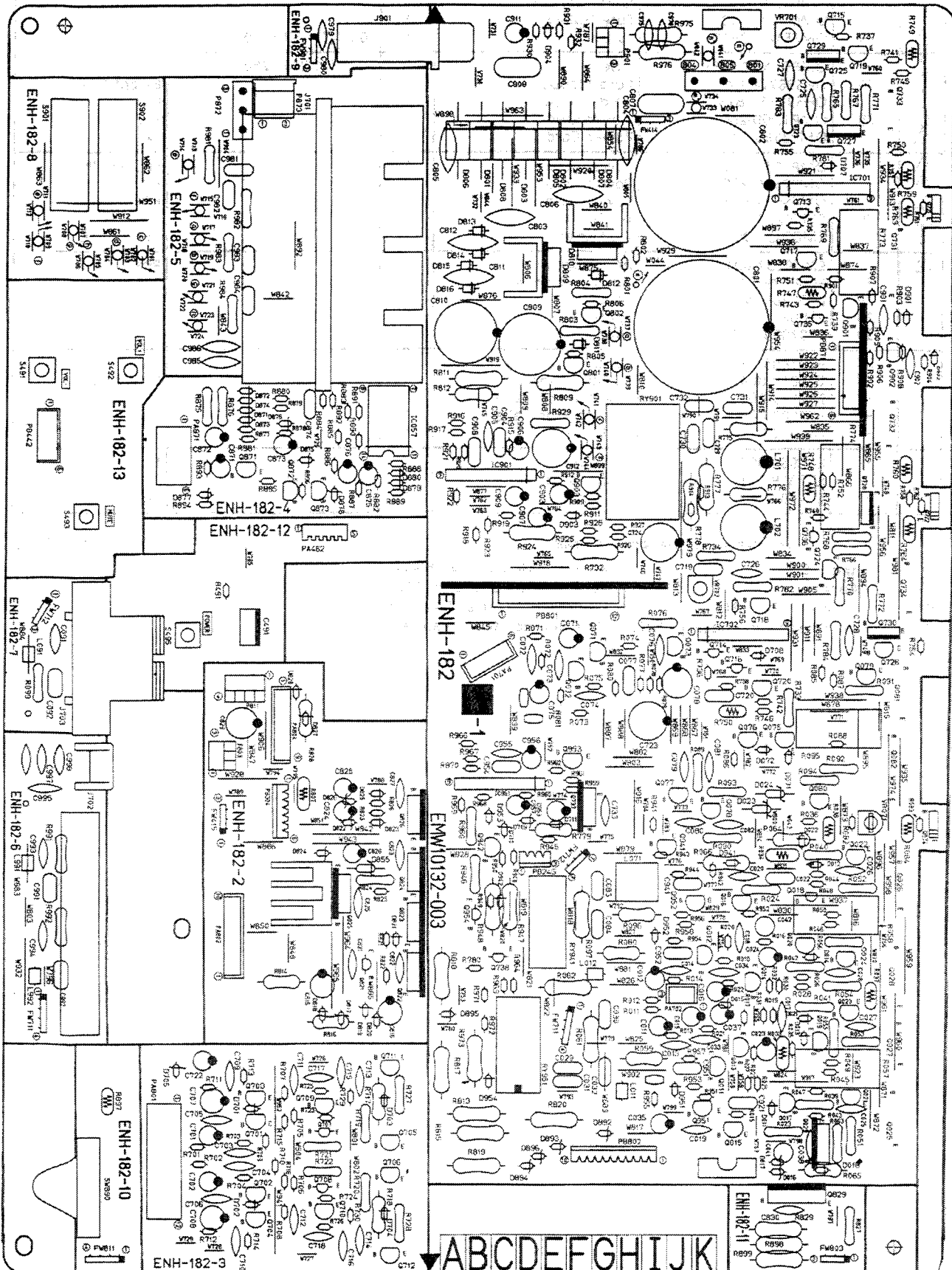
J.....the U.S.A.
C.....Canada
PA.....Australia (with PAL)
PE,PEF.....Continental Europe (with PAL)
PG.....Germany (with PAL)
PBS.....the U.K. (with PAL)
PU.....Universal Type (with PAL)
No mark indicates all areas.

⚠ Safety Parts

Printed Circuit Board Ass'y and Parts List

■ ENH-182 □ Power Amplifier PC Board Ass'y

Note: ENH-182 □ varies according to the areas employed. See note (1) when placing an order.



Note (1)

PC Board Ass'y	Designated Areas
ENH-182 A	the U.S.A.
ENH-182 B	Canada
ENH-182 C	Universal Type (with PAL)
ENH-182 D	Australia (with PAL)
ENH-182 E	Continental Europe (with PAL)
ENH-182 F	Germany (with PAL)
ENH-182 G	the U.K. (with PAL)

Transistors

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
	Q011	2SC2389(S)	SILICON ROHM	
	Q012	2SC2389(S)	SILICON ROHM	
	Q013	2SC2389(S)	SILICON ROHM	
	Q014	2SC2389(S)	SILICON ROHM	
	Q015	2SA1038(S,E)	SILICON ROHM	
	Q016	2SA1038(S,E)	SILICON ROHM	
	Q017	2SC945A(P,Q)	SILICON NEC	
	Q018	2SC945A(P,Q)	SILICON NEC	
	Q019	2SA733A(P,Q)	SILICON NEC	
	Q020	2SA733A(P,Q)	SILICON NEC	
	Q021	2SC2235(O,Y)	SILICON TOSHIBA	
	Q022	2SC2235(O,Y)	SILICON TOSHIBA	
	Q023	2SA965(O,Y)	SILICON TOSHIBA	
	Q024	2SA965(O,Y)	SILICON TOSHIBA	
	Q025	2SC3856LD(O,Y)	SILICON	
	Q026	2SC3856LD(O,Y)	SILICON	
	Q027	2SA1492LD(O,Y)	SILICON	
	Q028	2SA1492LD(O,Y)	SILICON	
	Q029	2SD2061(E,F)	SILICON ROHM	
	Q071	2SC2240(GR)	SILICON TOSHIBA	
	Q072	2SC2240(GR)	SILICON TOSHIBA	
	Q073	2SA1038(S,E)	SILICON ROHM	
	Q074	2SD636(Q,R)	SILICON MATSUSHITA	
	Q075	2SC945A(P,Q)	SILICON NEC	
	Q076	2SA733A(P,Q)	SILICON NEC	
	Q077	2SC2389(E)	SILICON ROHM	
	Q078	2SA1038(E)	SILICON ROHM	
	Q079	2SC2235(O,Y)	SILICON TOSHIBA	
	Q080	2SA965(O,Y)	SILICON TOSHIBA	
	Q081	2SC3856LD(O,Y)	SILICON	
	Q082	2SA1492LD(O,Y)	SILICON	
	Q701	2SC2240(A,B)	SILICON TOSHIBA	
	Q702	2SC2240(A,B)	SILICON TOSHIBA	
	Q703	2SC2240(A,B)	SILICON TOSHIBA	
	Q704	2SC2240(A,B)	SILICON TOSHIBA	
	Q705	2SA1038(S,E)	SILICON ROHM	
	Q706	2SA1038(S,E)	SILICON ROHM	
	Q707	2SA933LN(R,S)	SILICON ROHM	
	Q708	2SA933LN(R,S)	SILICON ROHM	
	Q709	2SA1038(S,E)	SILICON ROHM	
	Q710	2SA1038(S,E)	SILICON ROHM	
	Q711	2SC2389(S,E)	SILICON ROHM	
	Q712	2SC2389(S,E)	SILICON ROHM	
	Q713	2SC1740(R,S)	SILICON ROHM	
	Q714	2SC1740(R,S)	SILICON ROHM	
	Q715	2SA933LN(R,S)	SILICON ROHM	
	Q716	2SA933LN(R,S)	SILICON ROHM	
	Q717	2SC2389(S,E)	SILICON ROHM	
	Q718	2SC2389(S,E)	SILICON ROHM	
	Q719	2SA1038(S,E)	SILICON ROHM	
	Q720	2SA1038(S,E)	SILICON ROHM	
	Q721	2SD636(Q,R)	SILICON MATSUSHITA	
	Q722	2SD636(Q,R)	SILICON MATSUSHITA	
	Q723	2SC2389(S)	SILICON ROHM	
	Q724	2SC2389(S)	SILICON ROHM	
	Q725	2SA1038(S)	SILICON	
	Q726	2SA1038(S)	SILICON	
	Q727	2SD669A(B,C)	SILICON HITACHI	
	Q728	2SD669A(B,C)	SILICON HITACHI	
	Q729	2SB649A(B,C)	SILICON HITACHI	
	Q730	2SB649A(B,C)	SILICON HITACHI	
	Q731	2SC3858LG(Y,P,G)	SILICON SANKEN	
	Q732	2SC3858LG(Y,P,G)	SILICON SANKEN	
	Q733	2SA1494LG(Y,P,G)	SILICON SANKEN	
	Q734	2SA1494LG(Y,P,G)	SILICON SANKEN	
	Q735	DTC144ES	SILICON ROHM	
	Q736	DTC144ES	SILICON ROHM	
	Q737	2SD2061(E,F)	SILICON ROHM	
	Q738	DTC144ES	SILICON ROHM	
	Q801	2SA1038(S,E)	SILICON ROHM	

Δ : SAFETY PARTS

Transistors

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
	Q802	2SC2389(S,E)	SILICON ROHM	
	Q821	2SA933LN(R,S)	SILICON ROHM	
	Q822	2SB1133(R,S)	SILICON SANYO	
	Q823	2SD1666(R,S)	SILICON SANYO	
	Q824	2SD1944(J,K)	SILICON ROHM	
	Q825	2SD1944(J,K)	SILICON ROHM	
	Q826	2SD1944(J,K)	SILICON ROHM	
	Q829	2SC3853V(O,Y)	SILICON SANKEN	
	Q871	2SA1038(S,E)	SILICON ROHM	
	Q872	2SC2389(S,E)	SILICON ROHM	
	Q873	2SC2389(S,E)	SILICON ROHM	
	Q901	2SC2389(S,E)	SILICON ROHM	
	Q902	2SC2389(S,E)	SILICON ROHM	
	Q903	2SA1038(S,E)	SILICON ROHM	
	Q941	2SC2389(S,E)	SILICON ROHM	
	Q942	2SC2240(GR,BL)	SILICON TOSHIBA	
	Q951	2SC2389(S,E)	SILICON ROHM	
	Q952	2SC2389(S,E)	SILICON ROHM	
	Q953	2SA1038(S,E)	SILICON ROHM	
	Q954	DTC143TS	SILICON ROHM	

Δ : SAFETY PARTS

I.C.s

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
	IC057	AN6912	I.C. MATSUSHITA	
	IC701	VC5022-2	I.C. SANYO	
	IC702	VC5022-2	I.C. SANYO	
	IC901	TA7317P	I.C. TOSHIBA	
	IC951	TA7317P	I.C. TOSHIBA	

Δ : SAFETY PARTS

Diodes

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
	D011	1SS133	SILICON ROHM	
	D012	1SS133	SILICON ROHM	
	D013	1SS133	SILICON ROHM	
	D014	1SS133	SILICON ROHM	
	D015	MTZ18JC	ZENER ROHM	
	D016	MTZ11JC	ZENER ROHM	
	D017	MTZ16JC	ZENER ROHM	
	D018	1SS133	SILICON ROHM	
	D021	1SS133	SILICON ROHM	
	D022	1SS133	SILICON ROHM	
	D023	MTZ24JC	ZENER ROHM	
	D024	MTZ24JC	ZENER ROHM	
	D071	1SS133	SILICON ROHM	
	D072	1SS133	SILICON ROHM	
	D701	1SS133	SILICON ROHM	
	D702	1SS133	SILICON ROHM	
	D703	1SS133	SILICON ROHM	
	D704	1SS133	SILICON ROHM	
	D705	MTZ18JC	ZENER ROHM	
	D707	1SS133	SILICON ROHM	
	D708	1SS133	SILICON ROHM	
	D709	MTZ18JC	ZENER ROHM	
	D710	MTZ18JC	ZENER ROHM	
	D711	1SS133	SILICON ROHM	
	D801	30DF2SFC	SILICON NIHONINTER	
	D802	30DF2SFC	SILICON NIHONINTER	
	D803	30DF2SFC	SILICON NIHONINTER	
	D804	30DF2SFC	SILICON NIHONINTER	
	D805	30DF2SFC	SILICON NIHONINTER	
	D806	30DF2SFC	SILICON NIHONINTER	
	D807	30DF2SFC	SILICON NIHONINTER	
	D808	30DF2SFC	SILICON NIHONINTER	
	D809	SF8041	THYRISTOR TOSHIBA	
	D810	SF8041	THYRISTOR TOSHIBA	
Δ	D811	ERA15-02L19	SILICON KYOUDOU	
Δ	D812	ERA15-02L19	SILICON KYOUDOU	
	D813	EM01Z	SI.DIODE	A
	D813	EM01Z	SI.DIODE	B
Δ	D813	ERA15-02L19	SILICON KYOUDOU	C
Δ	D813	ERA15-02L19	SILICON KYOUDOU	D
Δ	D813	ERA15-02L19	SILICON KYOUDOU	E
Δ	D813	ERA15-02L19	SILICON KYOUDOU	F
Δ	D813	ERA15-02L19	SILICON KYOUDOU	G
	D814	EM01Z	SI.DIODE	A
	D814	EM01Z	SI.DIODE	B
Δ	D814	ERA15-02L19	SILICON KYOUDOU	C
Δ	D814	ERA15-02L19	SILICON KYOUDOU	D
Δ	D814	ERA15-02L19	SILICON KYOUDOU	E
Δ	D814	ERA15-02L19	SILICON KYOUDOU	F
Δ	D814	ERA15-02L19	SILICON KYOUDOU	G
	D815	EM01Z	SI.DIODE	A
	D815	EM01Z	SI.DIODE	B
Δ	D815	ERA15-02L19	SILICON KYOUDOU	C
Δ	D815	ERA15-02L19	SILICON KYOUDOU	D
Δ	D815	ERA15-02L19	SILICON KYOUDOU	E

Δ : SAFETY PARTS

Capacitors

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
	C729	QFN81HK-473	0.047MF 50V MYLAR	F
	C729	QFN81HK-473	0.047MF 50V MYLAR	G
	C730	QFN81HK-223	0.022MF 50V MYLAR	A
	C730	QFN81HK-473	0.047MF 50V MYLAR	B
	C730	QFN81HK-473	0.047MF 50V MYLAR	C
	C730	QFN81HK-473	0.047MF 50V MYLAR	D
	C730	QFN81HK-473	0.047MF 50V MYLAR	E
	C730	QFN81HK-473	0.047MF 50V MYLAR	F
	C730	QFN81HK-473	0.047MF 50V MYLAR	G
	C731	QFN81HK-473	0.047MF 50V MYLAR	B
	C731	QFN81HK-473	0.047MF 50V MYLAR	C
	C731	QFN81HK-473	0.047MF 50V MYLAR	D
	C731	QFN81HK-473	0.047MF 50V MYLAR	E
	C731	QFN81HK-473	0.047MF 50V MYLAR	F
	C731	QFN81HK-473	0.047MF 50V MYLAR	G
	C732	QFN81HK-473	0.047MF 50V MYLAR	B
	C732	QFN81HK-473	0.047MF 50V MYLAR	C
	C732	QFN81HK-473	0.047MF 50V MYLAR	D
	C732	QFN81HK-473	0.047MF 50V MYLAR	E
	C732	QFN81HK-473	0.047MF 50V MYLAR	F
	C732	QFN81HK-473	0.047MF 50V MYLAR	G
	C733	QCF21HP-472	4700PF 50V CERAMIC	
	C801	EEW8002-129T	12000MF ELECTRO	
	C802	EEW8002-129T	12000MF ELECTRO	
	C803	QCE22HP-103	0.01MF 500V CERAMIC	
	C804	QCE22HP-103	0.01MF 500V CERAMIC	
	C805	QCE22HP-103	0.01MF 500V CERAMIC	
	C806	QCE22HP-103	0.01MF 500V CERAMIC	
	C807	QFN82CK-104	0.1MF 160V MYLAR	
	C808	QFN82CK-104	0.1MF 160V MYLAR	
	C809	QETB1HM-108E	1000MF 50V ELECTRO	
	C810	QETB1HM-108E	1000MF 50V ELECTRO	
	C811	QCE22HP-103	0.01MF 500V CERAMIC	
	C812	QCE22HP-103	0.01MF 500V CERAMIC	
	C815	QEH1EM-107	100MF 25V ELECTRO	
	C816	QEH1EM-107	100MF 25V ELECTRO	
	C821	QCF21HP-472	4700PF 50V CERAMIC	
	C822	QCF21HP-472	4700PF 50V CERAMIC	
	C823	QCF21HP-472	4700PF 50V CERAMIC	
	C824	QEH1EM-226	22MF 50V ELECTRO	
	C825	QCF21HP-472	4700PF 50V CERAMIC	
	C826	QEH1EM-226	22MF 50V ELECTRO	
	C827	QCF21HP-472	4700PF 50V CERAMIC	
	C828	QEH1EM-226	22MF 50V ELECTRO	
	C829	QETB1HM-107	100MF 50V ELECTRO	
	C830	QCF21HP-472	4700PF 50V CERAMIC	
	C871	QETB1HM-226	22MF 50V ELECTRO	
	C872	QETB2AM-225	2.2MF 100V ELECTRO	
	C873	QEH82AM-105	1MF 100V ELECTRO	
	C874	QFV81HJ-104	0.1MF 50V T.FILM	
	C875	QEH1EM-476	47MF 25V ELECTRO	
	C876	QEH1EM-225	2.2MF 50V ELECTRO	
	C901	QCF21HP-223	0.022MF 50V CERAMIC	
	C902	QCF21HP-223	0.022MF 50V CERAMIC	
	C903	QETB1EM-226	22MF 25V ELECTRO	
	C904	QCF21HP-103	0.01MF 50V CERAMIC	
	C905	QCY21HK-102	1000PF 50V CERAMIC	
	C906	QETB1AM-476	47MF 10V ELECTRO	
	C907	QETB1HM-474	0.47MF 50V ELECTRO	
	C908	QFN81HK-153	0.015MF 50V MYLAR	
	C909	QETB1CM-226	22MF 16V ELECTRO	
	C911	QETB1HM-225	2.2MF 50V ELECTRO	
	C912	QETB1HM-227	220MF 50V ELECTRO	
	C941	QCF21HP-223	0.022MF 50V CERAMIC	
	C951	QCF21HP-223	0.022MF 50V CERAMIC	
	C952	QCF21HP-223	0.022MF 50V CERAMIC	
	C953	QETB1HM-226	22MF 50V ELECTRO	
	C954	QFN81HK-223	0.022MF 50V MYLAR	
	C955	QCY21HK-102	1000PF 50V CERAMIC	
	C956	QETB1AM-476	47MF 10V ELECTRO	
	C957	QETB1CM-226	22MF 16V ELECTRO	
	C975	QCS21HJ-331	330PF 50V CERAMIC	E
	C975	QCS21HJ-331	330PF 50V CERAMIC	F
	C975	QCS21HJ-331	330PF 50V CERAMIC	G
	C976	QCS21HJ-331	330PF 50V CERAMIC	E
	C976	QCS21HJ-331	330PF 50V CERAMIC	F
	C976	QCS21HJ-331	330PF 50V CERAMIC	G
	C977	QCS21HJ-331	330PF 50V CERAMIC	E
	C979	QCS21HJ-331	330PF 50V CERAMIC	F
	C979	QCS21HJ-331	330PF 50V CERAMIC	G
	C980	QCS21HJ-331	330PF 50V CERAMIC	E
	C980	QCS21HJ-331	330PF 50V CERAMIC	F
	C980	QCS21HJ-331	330PF 50V CERAMIC	G
	C981	QFN81HK-103	0.01MF 50V MYLAR	E
	C981	QFN81HK-103	0.01MF 50V MYLAR	F
	C981	QFN81HK-103	0.01MF 50V MYLAR	G
	C982	QFN81HK-103	0.01MF 50V MYLAR	E
	C982	QFN81HK-103	0.01MF 50V MYLAR	F
	C982	QFN81HK-103	0.01MF 50V MYLAR	G
	C983	QFN81HK-103	0.01MF 50V MYLAR	E

Δ : SAFETY PARTS

Capacitors

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
	C983	QFN81HK-103	0.01MF 50V MYLAR	F
	C983	QFN81HK-103	0.01MF 50V MYLAR	G
	C984	QFN81HK-103	0.01MF 50V MYLAR	F
	C984	QFN81HK-103	0.01MF 50V MYLAR	F
	C984	QFN81HK-103	0.01MF 50V MYLAR	G
	C985	QCF21HP-472	4700PF 50V CERAMIC	E
	C985	QCF21HP-472	4700PF 50V CERAMIC	F
	C985	QCF21HP-472	4700PF 50V CERAMIC	G
	C986	QCF21HP-472	4700PF 50V CERAMIC	E
	C986	QCF21HP-472	4700PF 50V CERAMIC	F
	C986	QCF21HP-472	4700PF 50V CERAMIC	G
	C991	QFN81HK-103	0.01MF 50V MYLAR	E
	C991	QFN81HK-103	0.01MF 50V MYLAR	F
	C991	QFN81HK-103	0.01MF 50V MYLAR	G
	C992	QFN81HK-103	0.01MF 50V MYLAR	E
	C992	QFN81HK-103	0.01MF 50V MYLAR	F
	C993	QCS21HJ-471	470PF 50V CERAMIC	E
	C993	QCS21HJ-471	470PF 50V CERAMIC	F
	C993	QCS21HJ-471	470PF 50V CERAMIC	G
	C994	QCS21HJ-471	470PF 50V CERAMIC	E
	C994	QCS21HJ-471	470PF 50V CERAMIC	F
	C994	QCS21HJ-471	470PF 50V CERAMIC	G
	C995	QCF21HP-472	4700PF 50V CERAMIC	E
	C995	QCF21HP-472	4700PF 50V CERAMIC	F
	C995	QCF21HP-472	4700PF 50V CERAMIC	G
	C997	QCF21HP-472	4700PF 50V CERAMIC	E
	C997	QCF21HP-472	4700PF 50V CERAMIC	F
	C997	QCF21HP-472	4700PF 50V CERAMIC	G
	C998	QCF21HP-472	4700PF 50V CERAMIC	E
	C998	QCF21HP-472	4700PF 50V CERAMIC	F
	C998	QCF21HP-472	4700PF 50V CERAMIC	G

Δ : SAFETY PARTS

Resistors

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
	R011	QRD167J-222	2.2K 1/6W CARBON	
	R012	QRD167J-222	2.2K 1/6W CARBON	
	R013	QRD167J-104	100K 1/6W CARBON	
	R014	QRD167J-104	100K 1/6W CARBON	
	R015	QRD167J-202	2K 1/6W CARBON	
	R016	QRD167J-202	2K 1/6W CARBON	
	R017	QRD167J-133	13K 1/6W CARBON	
	R018	QRD167J-133	13K 1/6W CARBON	
	R019	QRD167J-104	100K 1/6W CARBON	
	R020	QRD167J-104	100K 1/6W CARBON	
	R021	QRD167J-302	3K 1/6W CARBON	
	R022	QRD167J-302	3K 1/6W CARBON	
	R023	QRD14CJ-181S	180 1/4W UNF. CARBON	A
	R023	QRD14CJ-181S	180 1/4W UNF. CARBON	B
	R023	QRZ0077-181	180 1/4W FUSIBLE	C
	R023	QRZ0077-181	180 1/4W FUSIBLE	D
	R023	QRZ0077-181	180 1/4W FUSIBLE	E
	R023	QRZ0077-181	180 1/4W FUSIBLE	F
	R023	QRZ0077-181	180 1/4W FUSIBLE	G
	R024	QRD14CJ-181S	180 1/4W UNF. CARBON	A
	R024	QRD14CJ-181S	180 1/4W UNF. CARBON	B
	R024	QRZ0077-181	180 1/4W FUSIBLE	C
	R024	QRZ0077-181	180 1/4W FUSIBLE	D
	R024	QRZ0077-181	180 1/4W FUSIBLE	E
	R024	QRZ0077-181	180 1/4W FUSIBLE	F
	R024	QRZ0077-181	180 1/4W FUSIBLE	G
	R025	QRD167J-123	12K 1/6W CARBON	
	R026	QRD167J-123	12K 1/6W CARBON	
	R027	QRD167J-123	12K 1/6W CARBON	
	R028	QRD167J-123	12K 1/6W CARBON	
	R029	QRD167J-272	2.7K 1/6W CARBON	
	R030	QRD167J-272	2.7K 1/6W CARBON	
	R031	QRD167J-272	2.7K 1/6W CARBON	
	R032	QRD167J-272	2.7K 1/6W CARBON	
	R033	SDT250	NEGATIVE	
	R034	SDT250	NEGATIVE	
	R035	QRD167J-511	510 1/6W CARBON	
	R036	QRD167J-511	510 1/6W CARBON	
	R037	SDT250	NEGATIVE	
	R038	SDT250	NEGATIVE	
	R039	QRD14CJ-100S	10 1/4W UNF. CARBON	
	R040	QRD14CJ-100S	10 1/4W UNF. CARBON	
	R041	QRD14CJ-100S	10 1/4W UNF. CARBON	
	R042	QRD14CJ-100S	10 1/4W UNF. CARBON	
	R043	QRD167J-331	330 1/6W CARBON	
	R044	QRD167J-331	330 1/6W CARBON	
	R045	QRD167J-331	330 1/6W CARBON	
	R046	QRD167J-331	330 1/6W CARBON	
	R047	QRD167J-151	150 1/6W CARBON	
	R048	QRD167J-151	150 1/6W CARBON	
	R049	QRD167J-151	150 1/6W CARBON	
	R050	QRD167J-151	150 1/6W CARBON	
	R051	QRD14CJ-100S	10 1/4W UNF. CARBON	
	R052	QRD14CJ-100S	10 1/4W UNF. CARBON	
	R053	QRD14CJ-100S	10 1/4W UNF. CARBON	

Δ : SAFETY PARTS

Resistors

ITEM	PART NUMBER	DESCRIPTION	AREA
△ R054	QRD14CJ-100S	10 1/4W UNF. CARBON	
△ R055	QRD14CJ-271S	270 1/4W UNF. CARBON	
△ R056	QRD14CJ-271S	270 1/4W UNF. CARBON	
△ R057	ERF032K-R22	0.22 3W CEMENT	
△ R058	ERF032K-R22	0.22 3W CEMENT	
△ R059	QRD125J-330	33 1/2W UNF. CARBON	
△ R060	QRD125J-330	33 1/2W UNF. CARBON	
△ R061	QRG022J-100A	10 2W O.M. FILM	
△ R062	QRG022J-100A	10 2W O.M. FILM	
△ R063	QRD14CJ-101S	100 1/4W UNF. CARBON	
△ R064	QRG012J-102A	1K 1W O.M. FILM	A
△ R064	QRG012J-102A	1K 1W O.M. FILM	B
△ R064	QRG012J-271A	270 1W O.M. FILM	C
△ R064	QRG012J-271A	270 1W O.M. FILM	D
△ R064	QRG012J-271A	270 1W O.M. FILM	E
△ R064	QRG012J-271A	270 1W O.M. FILM	F
△ R064	QRG012J-271A	270 1W O.M. FILM	G
△ R065	QRD125J-822	8.2K 1/2W UNF. CARBON	
△ R066	QRG022J-222A	2.2K 2W O.M. FILM	A
△ R066	QRG022J-222A	2.2K 2W O.M. FILM	B
△ R066	QRG022J-562A	5.6K 2W O.M. FILM	C
△ R066	QRG022J-562A	5.6K 2W O.M. FILM	D
△ R066	QRG022J-562A	5.6K 2W O.M. FILM	E
△ R066	QRG022J-562A	5.6K 2W O.M. FILM	F
△ R066	QRG022J-562A	5.6K 2W O.M. FILM	G
△ R071	QRD167J-222	2.2K 1/6W CARBON	
△ R072	QRD167J-104	100K 1/6W CARBON	
△ R073	QRD167J-133	13K 1/6W CARBON	
△ R074	QRD167J-202	2K 1/6W CARBON	
△ R075	QRD167J-104	100K 1/6W CARBON	
△ R076	QRD14CJ-181S	180 1/4W UNF. CARBON	
△ R077	QRD167J-123	12K 1/6W CARBON	
△ R078	QRD167J-123	12K 1/6W CARBON	
△ R079	QRV144F-2701	2.7K 1/4W M. FILM	
△ R080	QRV144F-2701	2.7K 1/4W M. FILM	
△ R081	QRD167J-152	1.5K 1/6W CARBON	
△ R082	QRD167J-152	1.5K 1/6W CARBON	
△ R083	QRD167J-391	390 1/6W CARBON	
△ R084	SDT250	NEGATIVE	
△ R085	QRD167J-221	220 1/6W CARBON	
△ R086	QRD167J-221	220 1/6W CARBON	
△ R087	QRD167J-271	270 1/6W CARBON	
△ R088	QRD167J-271	270 1/6W CARBON	
△ R089	QRD14CJ-100S	10 1/4W UNF. CARBON	
△ R090	QRD14CJ-100S	10 1/4W UNF. CARBON	
△ R091	QRD14CJ-100S	10 1/4W UNF. CARBON	
△ R092	QRD14CJ-100S	10 1/4W UNF. CARBON	
△ R093	QRD14CJ-272S	2.7K 1/4W UNF. CARBON	
△ R094	QRD14CJ-271S	270 1/4W UNF. CARBON	
△ R095	ERF032K-R22	0.22 3W CEMENT	
△ R096	QRD125J-330	33 1/2W UNF. CARBON	
△ R097	QRG022J-100A	10 2W O.M. FILM	
△ R099	QRD14CJ-100S	10 1/4W UNF. CARBON	E
△ R099	QRD14CJ-100S	10 1/4W UNF. CARBON	F
△ R099	QRD14CJ-100S	10 1/4W UNF. CARBON	G
△ R491	QRD167J-331	330 1/6W CARBON	
△ R701	QRD167J-222	2.2K 1/6W CARBON	
△ R702	QRD167J-222	2.2K 1/6W CARBON	
△ R703	QRD167J-104	100K 1/6W CARBON	
△ R704	QRD167J-104	100K 1/6W CARBON	
△ R705	QRD167J-202	2K 1/6W CARBON	
△ R706	QRD167J-202	2K 1/6W CARBON	
△ R707	QRD167J-202	2K 1/6W CARBON	
△ R708	QRD167J-202	2K 1/6W CARBON	
△ R709	QRD167J-822	8.2K 1/6W CARBON	
△ R710	QRD167J-822	8.2K 1/6W CARBON	
△ R711	QRD167J-152	1.5K 1/6W CARBON	A
△ R711	QRD167J-152	1.5K 1/6W CARBON	B
△ R711	QRV144F-1501	1.5K 1/4W M. FILM	C
△ R711	QRV144F-1501	1.5K 1/4W M. FILM	D
△ R711	QRV144F-1501	1.5K 1/4W M. FILM	E
△ R711	QRV144F-1501	1.5K 1/4W M. FILM	F
△ R712	QRD167J-152	1.5K 1/6W CARBON	A
△ R712	QRD167J-152	1.5K 1/6W CARBON	B
△ R712	QRV144F-1501	1.5K 1/4W M. FILM	C
△ R712	QRV144F-1501	1.5K 1/4W M. FILM	D
△ R712	QRV144F-1501	1.5K 1/4W M. FILM	E
△ R712	QRV144F-1501	1.5K 1/4W M. FILM	F
△ R712	QRV144F-1501	1.5K 1/4W M. FILM	G
△ R713	QRD167J-104	100K 1/6W CARBON	A
△ R713	QRD167J-104	100K 1/6W CARBON	B
△ R713	QRV144F-1003	100K 1/4W M. FILM	C
△ R713	QRV144F-1003	100K 1/4W M. FILM	D
△ R713	QRV144F-1003	100K 1/4W M. FILM	E
△ R713	QRV144F-1003	100K 1/4W M. FILM	F
△ R713	QRV144F-1003	100K 1/4W M. FILM	G
△ R714	QRD167J-104	100K 1/6W CARBON	A
△ R714	QRD167J-104	100K 1/6W CARBON	B
△ R714	QRV144F-1003	100K 1/4W M. FILM	C

△ SAFETY PARTS

Resistors

ITEM	PART NUMBER	DESCRIPTION	AREA
△ R714	QRV144F-1003	100K 1/4W M. FILM	D
△ R714	QRV144F-1003	100K 1/4W M. FILM	E
△ R714	QRV144F-1003	100K 1/4W M. FILM	F
△ R714	QRV144F-1003	100K 1/4W M. FILM	G
△ R715	QRD167J-101	100 1/6W CARBON	
△ R716	QRD167J-101	100 1/6W CARBON	
△ R717	QRD125J-153	15K 1/2W UNF. CARBON	
△ R718	QRD125J-153	15K 1/2W UNF. CARBON	
△ R719	QRD14CJ-391S	390 1/4W UNF. CARBON	
△ R720	QRD14CJ-391S	390 1/4W UNF. CARBON	
△ R721	QRD14CJ-151S	150 1/4W UNF. CARBON	A
△ R721	QRD14CJ-151S	150 1/4W UNF. CARBON	B
△ R721	QRZ0077-151	150 1/4W FUSIBLE	C
△ R721	QRZ0077-151	150 1/4W FUSIBLE	D
△ R721	QRZ0077-151	150 1/4W FUSIBLE	E
△ R721	QRZ0077-151	150 1/4W FUSIBLE	F
△ R721	QRZ0077-151	150 1/4W FUSIBLE	G
△ R722	QRD14CJ-151S	150 1/4W UNF. CARBON	A
△ R722	QRD14CJ-151S	150 1/4W UNF. CARBON	B
△ R722	QRZ0077-151	150 1/4W FUSIBLE	C
△ R722	QRZ0077-151	150 1/4W FUSIBLE	D
△ R722	QRZ0077-151	150 1/4W FUSIBLE	E
△ R722	QRZ0077-151	150 1/4W FUSIBLE	F
△ R722	QRZ0077-151	150 1/4W FUSIBLE	G
△ R723	QRD167J-222	2.2K 1/6W CARBON	
△ R724	QRD167J-222	2.2K 1/6W CARBON	
△ R725	QRD167J-393	39K 1/6W CARBON	
△ R726	QRD167J-393	39K 1/6W CARBON	
△ R727	QRD14CJ-391S	390 1/4W UNF. CARBON	
△ R728	QRD14CJ-391S	390 1/4W UNF. CARBON	
△ R729	QRD167J-152	1.5K 1/6W CARBON	
△ R730	QRD167J-152	1.5K 1/6W CARBON	
△ R732	QRG022J-562A	5.6K 2W O.M. FILM	
△ R733	QRD14CJ-100S	10 1/4W UNF. CARBON	
△ R734	QRD14CJ-100S	10 1/4W UNF. CARBON	A
△ R734	QRD14CJ-100S	10 1/4W UNF. CARBON	B
△ R734	QRZ0077-100	10 1/4W FUSIBLE	C
△ R734	QRZ0077-100	10 1/4W FUSIBLE	D
△ R734	QRZ0077-100	10 1/4W FUSIBLE	E
△ R734	QRZ0077-100	10 1/4W FUSIBLE	F
△ R734	QRZ0077-100	10 1/4W FUSIBLE	G
△ R735	QRD167J-103	10K 1/6W CARBON	
△ R736	QRD167J-103	10K 1/6W CARBON	
△ R737	QRD167J-103	10K 1/6W CARBON	
△ R738	QRD167J-103	10K 1/6W CARBON	
△ R739	QRD167J-221	220 1/6W CARBON	
△ R740	QRD167J-221	220 1/6W CARBON	
△ R741	QRD167J-221	220 1/6W CARBON	
△ R742	QRD167J-221	220 1/6W CARBON	
△ R743	QRD167J-271	270 1/6W CARBON	A
△ R743	QRD167J-271	270 1/6W CARBON	B
△ R743	QRD167J-681	680 1/6W CARBON	C
△ R743	QRD167J-681	680 1/6W CARBON	D
△ R743	QRD167J-681	680 1/6W CARBON	E
△ R743	QRD167J-681	680 1/6W CARBON	F
△ R743	QRD167J-681	680 1/6W CARBON	G
△ R744	QRD167J-271	270 1/6W CARBON	A
△ R744	QRD167J-271	270 1/6W CARBON	B
△ R744	QRD167J-681	680 1/6W CARBON	C
△ R744	QRD167J-681	680 1/6W CARBON	D
△ R744	QRD167J-681	680 1/6W CARBON	E
△ R744	QRD167J-681	680 1/6W CARBON	F
△ R744	QRD167J-681	680 1/6W CARBON	G
△ R745	QRD167J-271	270 1/6W CARBON	
△ R746	QRD167J-271	270 1/6W CARBON	
△ R747	ERT-D2WFL351S	350 1/4W THERMISTOR	
△ R748	ERT-D2WFL351S	350 1/4W THERMISTOR	
△ R749	ERT-D2WFL351S	350 1/4W THERMISTOR	
△ R750	ERT-D2WFL351S	350 1/4W THERMISTOR	
△ R751	QRD167J-122	1.2K 1/6W CARBON	
△ R752	QRD167J-122	1.2K 1/6W CARBON	
△ R753	QRD167J-122	1.2K 1/6W CARBON	
△ R754	QRD167J-122	1.2K 1/6W CARBON	
△ R755	QRD167J-471	470 1/6W CARBON	
△ R756	QRD167J-471	470 1/6W CARBON	
△ R757	QRD167J-101	100 1/6W CARBON	
△ R758	QRD167J-101	100 1/6W CARBON	
△ R759	ERT-D2WFL351S	350 1/4W THERMISTOR	
△ R760	ERT-D2WFL351S	350 1/4W THERMISTOR	
△ R761	QRD167J-391	390 1/6W CARBON	
△ R762	QRD167J-391	390 1/6W CARBON	
△ R763	SDT250	NEGATIVE	C
△ R763	SDT250	NEGATIVE	D
△ R763	SDT250	NEGATIVE	E
△ R763	SDT250	NEGATIVE	F
△ R763	SDT250	NEGATIVE	G
△ R764	SDT250	NEGATIVE	C
△ R764	SDT250	NEGATIVE	D
△ R764	SDT250	NEGATIVE	E

△ SAFETY PARTS

Resistors

Δ	ITEM	PART NUMBER	DESCRIPTION			AREA
	R764	SDT250			NEGATIVE	F
	R764	SDT250			NEGATIVE	G
Δ	R765	QRD14CJ-272S	2.7K	1/4W	UNF. CARBON	
Δ	R766	QRD14CJ-272S	2.7K	1/4W	UNF. CARBON	
Δ	R767	QRD14CJ-271S	270	1/4W	UNF. CARBON	
Δ	R768	QRD14CJ-271S	270	1/4W	UNF. CARBON	
Δ	R769	QRD14CJ-100S	10	1/4W	UNF. CARBON	
Δ	R770	QRD14CJ-100S	10	1/4W	UNF. CARBON	
Δ	R771	QRD14CJ-100S	10	1/4W	UNF. CARBON	
Δ	R772	QRD14CJ-100S	10	1/4W	UNF. CARBON	
Δ	R773	ERF032K-R22	0.22	3W	CEMENT	
Δ	R774	ERF032K-R22	0.22	3W	CEMENT	
Δ	R775	QRD125J-470	47	1/2W	UNF. CARBON	
Δ	R776	QRD125J-470	47	1/2W	UNF. CARBON	
Δ	R777	QRG022J-100A	10	2W	O.M. FILM	
Δ	R778	QRG022J-100A	10	2W	O.M. FILM	
Δ	R779	QRD125J-272	2.7K	1/2W	UNF. CARBON	
Δ	R780	QRD167J-104	100K	1/6W	CARBON	
Δ	R781	QRD14CJ-100S	10	1/4W	UNF. CARBON	
Δ	R782	QRD14CJ-100S	10	1/4W	UNF. CARBON	
Δ	R783	QRD14CJ-100S	10	1/4W	UNF. CARBON	
Δ	R784	QRD14CJ-100S	10	1/4W	UNF. CARBON	
Δ	R801	QRD167J-114	110K	1/6W	CARBON	
Δ	R802	QRD167J-114	110K	1/6W	CARBON	
Δ	R803	QRD14CJ-4R7S	4.7	1/4W	UNF. CARBON	
Δ	R804	QRD14CJ-4R7S	4.7	1/4W	UNF. CARBON	
Δ	R805	QRD167J-472	4.7K	1/6W	CARBON	
Δ	R806	QRD167J-472	4.7K	1/6W	CARBON	
Δ	R807	PTH61G30BD2R2N			FUSIBLE	B
Δ	R807	PTH61G30BD2R2N			FUSIBLE	C
Δ	R807	PTH61G30BD2R2N			FUSIBLE	D
Δ	R807	PTH61G30BD2R2N			FUSIBLE	E
Δ	R807	PTH61G30BD2R2N			FUSIBLE	F
Δ	R807	PTH61G30BD2R2N			FUSIBLE	G
Δ	R809	QRG022J-222A	2.2K	2W	O.M. FILM	
Δ	R811	QRX022J-1R2A	1.2	2W	M. FILM	
Δ	R812	QRX012J-1R2A	1.2	1W	M. FILM	
Δ	R813	QRG026J-680AF	68	2W	O.M. FILM	A
Δ	R813	QRG026J-680AF	68	2W	O.M. FILM	B
Δ	R813	QRG026J-390AF	39	2W	O.M. FILM	C
Δ	R813	QRG026J-390AF	39	2W	O.M. FILM	D
Δ	R813	QRG026J-390AF	39	2W	O.M. FILM	E
Δ	R813	QRG026J-390AF	39	2W	O.M. FILM	F
Δ	R813	QRG026J-390AF	39	2W	O.M. FILM	G
Δ	R814	QRD125J-272	2.7K	1/2W	UNF. CARBON	
Δ	R815	QRG026J-470AF	47	2W	O.M. FILM	A
Δ	R815	QRG026J-470AF	47	2W	O.M. FILM	B
Δ	R815	QRG026J-330AF	33	2W	O.M. FILM	C
Δ	R815	QRG026J-330AF	33	2W	O.M. FILM	D
Δ	R815	QRG026J-330AF	33	2W	O.M. FILM	E
Δ	R815	QRG026J-330AF	33	2W	O.M. FILM	F
Δ	R815	QRG026J-330AF	33	2W	O.M. FILM	G
Δ	R816	QRD125J-272	2.7K	1/2W	UNF. CARBON	
Δ	R817	QRG022J-680A	68	2W	O.M. FILM	
Δ	R818	QRG022J-390A	39	2W	O.M. FILM	
Δ	R819	QRG022J-390A	39	2W	O.M. FILM	
Δ	R820	QRG022J-470A	47	2W	O.M. FILM	
Δ	R821	QRD167J-562	5.6K	1/6W	CARBON	
Δ	R822	QRD167J-682	6.8K	1/6W	CARBON	
Δ	R823	QRD167J-133	13K	1/6W	CARBON	
Δ	R824	QRD14CJ-150S	15	1/4W	UNF. CARBON	A
Δ	R824	QRD14CJ-150S	15	1/4W	UNF. CARBON	B
Δ	R824	QRZ0077-150	15	1/4W	FUSIBLE	C
Δ	R824	QRZ0077-150	15	1/4W	FUSIBLE	D
Δ	R824	QRZ0077-150	15	1/4W	FUSIBLE	E
Δ	R824	QRZ0077-150	15	1/4W	FUSIBLE	F
Δ	R824	QRZ0077-150	15	1/4W	FUSIBLE	G
Δ	R825	QRD167J-152	1.5K	1/6W	CARBON	
Δ	R826	QRD167J-133	13K	1/6W	CARBON	
Δ	R827	QRD14CJ-1R5S	1.5	1/4W	UNF. CARBON	A
Δ	R828	QRD125J-272	2.7K	1/2W	UNF. CARBON	
Δ	R829	QRG022J-220A	22	2W	O.M. FILM	
Δ	R875	QRD14CJ-100S	10	1/4W	UNF. CARBON	
Δ	R876	QRD14CJ-100S	10	1/4W	UNF. CARBON	
Δ	R877	QRD167J-823	82K	1/6W	CARBON	
Δ	R878	QRD167J-222	2.2K	1/6W	CARBON	
Δ	R879	QRD167J-563	56K	1/6W	CARBON	
Δ	R880	QRD167J-473	47K	1/6W	CARBON	
Δ	R881	QRD167J-153	15K	1/6W	CARBON	
Δ	R882	QRD167J-474	470K	1/6W	CARBON	
Δ	R883	QRD167J-271	270	1/6W	CARBON	
Δ	R884	QRD167J-472	4.7K	1/6W	CARBON	
Δ	R885	QRD167J-474	470K	1/6W	CARBON	
Δ	R886	QRD167J-103	10K	1/6W	CARBON	
Δ	R887	QRD167J-223	220K	1/6W	CARBON	
Δ	R888	QRD167J-472	4.7K	1/6W	CARBON	
Δ	R889	QRD167J-472	4.7K	1/6W	CARBON	
Δ	R890	QRD167J-914	910K	1/6W	CARBON	
Δ	R891	QRD167J-914	910K	1/6W	CARBON	
Δ	R892	QRD167J-154	150K	1/6W	CARBON	

A : SAFETY PARTS

Resistors

Δ	ITEM	PART NUMBER	DESCRIPTION		AREA
Δ	R893	QRD167J-103	10K	1/6W CARBON	
	R894	QRD167J-103	10K	1/6W CARBON	
	R895	QRD167J-122	1.2K	1/6W CARBON	
	R896	QRD167J-123	12K	1/6W CARBON	
	R897	PTH9M04BF222TS		POSITIVE	
	R898	QRG022J-220A	22	2W O.M.FILM	
	R899	QRG022J-220A	22	2W O.M.FILM	
	R901	QRD167J-102	1K	1/6W CARBON	
	R902	QRD167J-102	1K	1/6W CARBON	
	R903	QRD167J-562	5.6K	1/6W CARBON	
	R904	QRD167J-562	5.6K	1/6W CARBON	
	R905	QRD167J-123	12K	1/6W CARBON	
	R906	QRD167J-123	12K	1/6W CARBON	
	R907	QRD167J-102	1K	1/6W CARBON	
	R908	QRD167J-102	1K	1/6W CARBON	
	R909	QRD167J-103	10K	1/6W CARBON	
	R911	QRD167J-332	3.3K	1/6W CARBON	
	R912	QRD167J-473	47K	1/6W CARBON	
	R913	QRD167J-104	100K	1/6W CARBON	
	R914	QRD167J-823	82K	1/6W CARBON	
	R915	QRD167J-823	82K	1/6W CARBON	
	R916	QRD167J-563	56K	1/6W CARBON	
	R917	QRD167J-683	68K	1/6W CARBON	
	R918	QRD167J-392	3.9K	1/6W CARBON	
	R919	QRD167J-392	3.9K	1/6W CARBON	
	R920	QRD167J-333	33K	1/6W CARBON	
	R921	QRD167J-224	220K	1/6W CARBON	
	R922	QRD167J-183	18K	1/6W CARBON	
	R923	QRD167J-150	15	1/6W CARBON	A
	R923	QRD167J-150	15	1/6W CARBON	B
Δ	R923	QRD167J-270	27	1/6W CARBON	C
	R923	QRD167J-270	27	1/6W CARBON	D
	R923	QRD167J-270	27	1/6W CARBON	E
	R923	QRD167J-270	27	1/6W CARBON	F
	R923	QRD167J-270	27	1/6W CARBON	G
	R924	QRG022J-221A	220	2W O.M.FILM	A
	R924	QRG022J-221A	220	2W O.M.FILM	B
	R924	QRG026J-271AF	270	2W O.M.FILM	C
	R924	QRG026J-271AF	270	2W O.M.FILM	D
	R924	QRG026J-271AF	270	2W O.M.FILM	E
Δ	R924	QRG026J-271AF	270	2W O.M.FILM	F
	R924	QRG026J-271AF	270	2W O.M.FILM	G
	R925	QRD167J-240	24	1/6W CARBON	A
	R925	QRD167J-240	24	1/6W CARBON	B
	R925	QRD167J-270	27	1/6W CARBON	C
	R925	QRD167J-270	27	1/6W CARBON	D
	R925	QRD167J-270	27	1/6W CARBON	E
	R925	QRD167J-270	27	1/6W CARBON	F
	R926	QRD167J-240	24	1/6W CARBON	A
	R926	QRD167J-240	24	1/6W CARBON	B
	R926	QRD167J-270	27	1/6W CARBON	C
	R926	QRD167J-270	27	1/6W CARBON	D
	R926	QRD167J-270	27	1/6W CARBON	E
	R926	QRD167J-270	27	1/6W CARBON	F
	R927	QRD167J-270	27	1/6W CARBON	G
	R927	QRD167J-240	24	1/6W CARBON	A
	R927	QRD167J-240	24	1/6W CARBON	B
	R927	QRD167J-270	27	1/6W CARBON	C
	R927	QRD167J-270	27	1/6W CARBON	D
	R927	QRD167J-270	27	1/6W CARBON	E
Δ	R927	QRD167J-270	27	1/6W CARBON	F
	R927	QRD167J-270	27	1/6W CARBON	G
	R928	QRD167J-240	24	1/6W CARBON	A
	R928	QRD167J-240	24	1/6W CARBON	B
	R928	QRD167J-270	27	1/6W CARBON	C
	R928	QRD167J-270	27	1/6W CARBON	D
	R928	QRD167J-270	27	1/6W CARBON	E
	R928	QRD167J-270	27	1/6W CARBON	F
	R928	QRD167J-270	27	1/6W CARBON	G
	R929	QRD14CJ-101S	100	1/4W UNF. CARBON	
	R930	QRD167J-562	5.6K	1/6W CARBON	
	R931	QRD167J-123	12K	1/6W CARBON	
	R932	QRD167J-332	3.3K	1/6W CARBON	
	R940	QRD167J-222	2.2K	1/6W CARBON	
	R941	QRD167J-102	1K	1/6W CARBON	
	R942	QRD167J-562	5.6K	1/6W CARBON	
	R943	QRD167J-123	12K	1/6W CARBON	
	R944	QRD167J-102	1K	1/6W CARBON	
	R945	QRD167J-823	82K	1/6W CARBON	
	R946	QRD14CJ-220S	22	1/4W UNF. CARBON	A
Δ	R946	QRD14CJ-220S	22	1/4W UNF. CARBON	B
	R946	QRZ0077-220	22	1/4W FUSIBLE	C
	R946	QRZ0077-220	22	1/4W FUSIBLE	D
	R946	QRZ0077-220	22	1/4W FUSIBLE	E
	R946	QRZ0077-220	22	1/4W FUSIBLE	F
	R946	QRZ0077-220	22	1/4W FUSIBLE	G
	R947	QRG022J-221A	220	2W O.M.FILM	
	R948	QRG022J-151A	150	2W O.M.FILM	A
	R948	QRG022J-151A	150	2W O.M.FILM	B

SAFETY PARTS

Resistors

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
Δ	R948	QRG022J-221A	220 2W O.M.FILM	C
Δ	R948	QRG022J-221A	220 2W O.M.FILM	D
Δ	R948	QRG022J-221A	220 2W O.M.FILM	E
Δ	R948	QRG022J-221A	220 2W O.M.FILM	F
Δ	R948	QRG022J-221A	220 2W O.M.FILM	G
	R949	QRD167J-220	22 1/6W CARBON	A
	R949	QRD167J-220	22 1/6W CARBON	B
	R949	QRD167J-150	15 1/6W CARBON	C
	R949	QRD167J-150	15 1/6W CARBON	D
	R949	QRD167J-150	15 1/6W CARBON	E
	R949	QRD167J-150	15 1/6W CARBON	F
	R949	QRD167J-150	15 1/6W CARBON	G
	R950	QRD167J-220	22 1/6W CARBON	A
	R950	QRD167J-220	22 1/6W CARBON	B
	R950	QRD167J-150	15 1/6W CARBON	C
	R950	QRD167J-150	15 1/6W CARBON	D
	R950	QRD167J-150	15 1/6W CARBON	E
	R950	QRD167J-150	15 1/6W CARBON	F
	R950	QRD167J-150	15 1/6W CARBON	G
	R951	QRD167J-471	470 1/6W CARBON	
	R952	QRD167J-471	470 1/6W CARBON	
	R953	QRD167J-562	5.6K 1/6W CARBON	
	R954	QRD167J-562	5.6K 1/6W CARBON	
	R955	QRD167J-123	12K 1/6W CARBON	
	R956	QRD167J-123	12K 1/6W CARBON	
	R957	QRD167J-152	1.5K 1/6W CARBON	
	R958	QRD167J-152	1.5K 1/6W CARBON	
	R959	QRD167J-103	10K 1/6W CARBON	
Δ	R960	QRD14CJ-470S	47 1/4W UNF. CARBON	
	R961	QRD167J-332	3.3K 1/6W CARBON	
	R962	QRD167J-473	47K 1/6W CARBON	
	R963	QRD167J-104	100K 1/6W CARBON	
	R964	QRD167J-823	82K 1/6W CARBON	
	R965	QRD167J-473	47K 1/6W CARBON	
	R966	QRD167J-563	56K 1/6W CARBON	
	R967	QRD167J-683	68K 1/6W CARBON	
	R968	QRD167J-392	3.9K 1/6W CARBON	
	R969	QRD167J-183	18K 1/6W CARBON	
	R970	QRD167J-204	200K 1/6W CARBON	
	R971	QRD167J-151	150 1/6W CARBON	A
	R971	QRD167J-151	150 1/6W CARBON	B
	R971	QRD167J-181	180 1/6W CARBON	C
	R971	QRD167J-181	180 1/6W CARBON	D
	R971	QRD167J-181	180 1/6W CARBON	E
	R971	QRD167J-181	180 1/6W CARBON	F
	R971	QRD167J-181	180 1/6W CARBON	G
	R972	QRD167J-151	150 1/6W CARBON	A
	R972	QRD167J-151	150 1/6W CARBON	B
	R972	QRD167J-181	180 1/6W CARBON	C
	R972	QRD167J-181	180 1/6W CARBON	D
	R972	QRD167J-181	180 1/6W CARBON	E
	R972	QRD167J-181	180 1/6W CARBON	F
	R972	QRD167J-181	180 1/6W CARBON	G
Δ	R973	QRG022J-391A	390 2W O.M.FILM	A
Δ	R973	QRG022J-391A	390 2W O.M.FILM	B
Δ	R973	QRG022J-471A	470 2W O.M.FILM	C
Δ	R973	QRG022J-471A	470 2W O.M.FILM	D
Δ	R973	QRG022J-471A	470 2W O.M.FILM	E
Δ	R973	QRG022J-471A	470 2W O.M.FILM	F
Δ	R973	QRG022J-471A	470 2W O.M.FILM	G
Δ	R975	QRG022J-471A	470 2W O.M.FILM	
Δ	R976	QRG022J-471A	470 2W O.M.FILM	
Δ	R981	QRZ0077-100	10 1/4W FUSIBLE	E
Δ	R981	QRZ0077-100	10 1/4W FUSIBLE	F
Δ	R981	QRZ0077-100	10 1/4W FUSIBLE	G
Δ	R982	QRZ0077-100	10 1/4W FUSIBLE	E
Δ	R982	QRZ0077-100	10 1/4W FUSIBLE	F
Δ	R982	QRZ0077-100	10 1/4W FUSIBLE	G
Δ	R983	QRZ0077-100	10 1/4W FUSIBLE	E
Δ	R983	QRZ0077-100	10 1/4W FUSIBLE	F
Δ	R983	QRZ0077-100	10 1/4W FUSIBLE	G
Δ	R984	QRZ0077-100	10 1/4W FUSIBLE	E
Δ	R984	QRZ0077-100	10 1/4W FUSIBLE	F
Δ	R984	QRZ0077-100	10 1/4W FUSIBLE	G
Δ	R991	QRZ0077-100	10 1/4W FUSIBLE	E
Δ	R991	QRZ0077-100	10 1/4W FUSIBLE	F
Δ	R991	QRZ0077-100	10 1/4W FUSIBLE	G
Δ	R992	QRZ0077-100	10 1/4W FUSIBLE	E
Δ	R992	QRZ0077-100	10 1/4W FUSIBLE	F
Δ	R992	QRZ0077-100	10 1/4W FUSIBLE	G
Δ	VR701	QVPE601-102	1K 0.15W VARIABLE	
Δ	VR701	QVPE601-501	500 0.15W VARIABLE	
Δ	VR702	QVPE601-501	500 0.15W VARIABLE	

Δ : SAFETY PARTS.

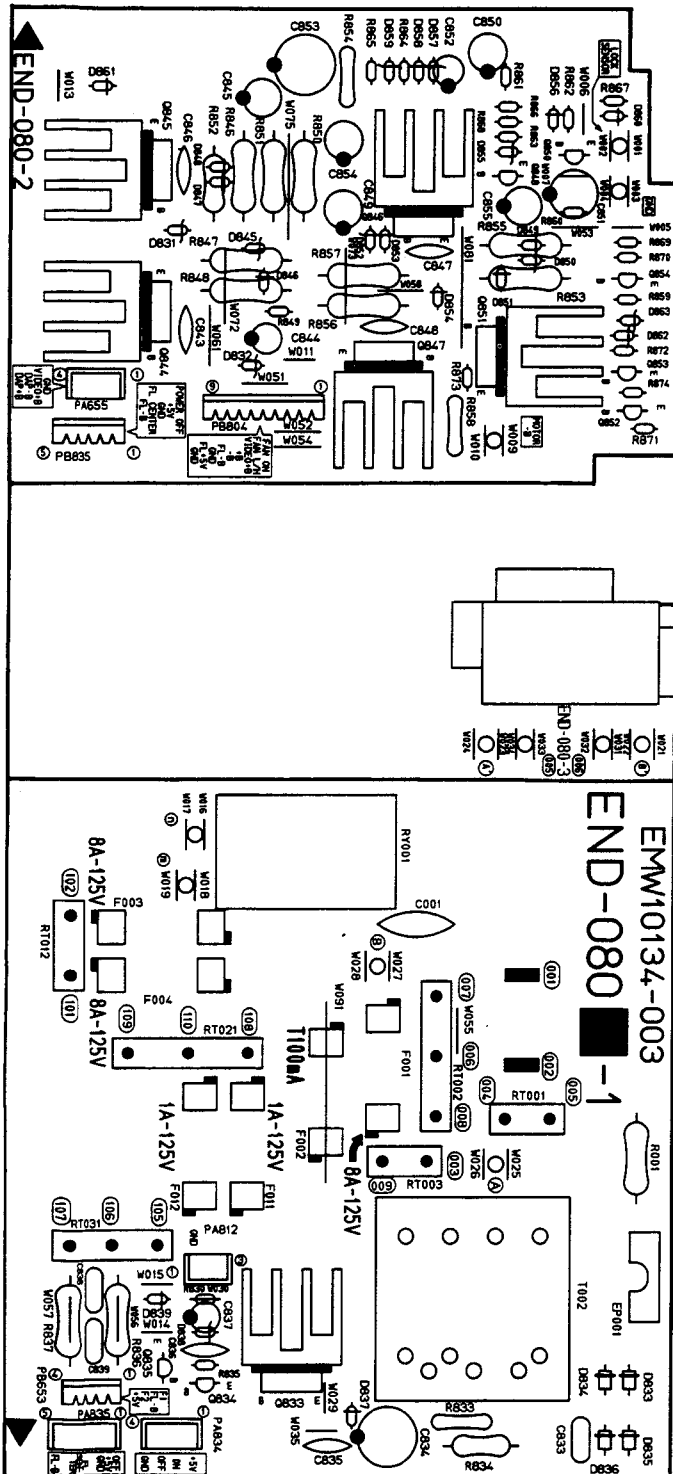
Others

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
		EMW10132-003	CIRCUIT BOARD	
		EWS112-006	SOCKET WIRE	
		E207227-002	HEAT SINK	
		E305205-001	HEAT SINK BRACKET	
		E306249-001	HEAT SINK BRACKET	
		E3400-431	SPACER	
		E406748-001	MYLAR SHEET	
		E48269-001	SPACER	
		E67764-103	WRAPPING TERMINAL	
		E70306-001	HEAT SINK	
		E70859-001	EARTH PLATE	
		E70945-H25B	HEAT SINK	
		E73525-001	SPECIAL SCREW	
		E73525-002	SCREW	
		E74546-001	HEAT SINK BRACKET	
		SBS63010CC	SCREW	
		SBS63008CC	SCREW	
		SBS63008Z	SCREW	
		E70208-001	PLATE	A
		E65654-001	INSULATION TUBE	C
		E65654-001	INSULATION TUBE	D
		E65654-001	INSULATION TUBE	E
		E70225-001	EARTH PLATE	E
		E65654-001	INSULATION TUBE	F
		E70225-001	EARTH PLATE	F
		E65654-001	INSULATION TUBE	G
		E70225-001	EARTH PLATE	G
	J701	EMB00TV-801A	TERMINAL	A
	J701	EMB00TV-801A	TERMINAL	B
	J701	EMB00TV-801B	TERMINAL	C
	J701	EMB00TV-801B	TERMINAL	D
	J701	EMB00TV-801B	TERMINAL	E
	J701	EMB00TV-801B	TERMINAL	F
	J701	EMB00TV-801B	TERMINAL	G
	J702	EMB90YV-401A	SPEAKER TERMINAL	
	J703	EMB90YV-201AG	ANTENNA TERMINAL	
	J901	QMS6A40-021	HEADPHONE JACK	
	L011	EQL0001-R45	INDUCTOR	
	L012	EQL0001-R45	INDUCTOR	
	L071	EQL0001-1R0	INDUCTOR	
	L091	EQL0001-R45	INDUCTOR	E
	L091	EQL0001-R45	INDUCTOR	F
	L091	EQL0001-R45	INDUCTOR	G
	L701	EQL0101-1R2	INDUCTOR	
	L702	EQL0101-1R2	INDUCTOR	
	L991	EQL0001-R45	INDUCTOR	E
	L991	EQL0001-R45	INDUCTOR	F
	L991	EQL0001-R45	INDUCTOR	G
	L992	EQL0001-R45	INDUCTOR	E
	L992	EQL0001-R45	INDUCTOR	F
	L992	EQL0001-R45	INDUCTOR	G
	P803	EMV7122-103	CONNECTOR(3PIN)	
	P811	EMV7122-004	CONNECTOR(4PIN)	
	P872	EMV5102-003B	PLUG ASSY(3PIN)	
	P873	EMV5111-003B	PLUG ASSY(3PIN)	
	P901	EMV7122-103	CONNECTOR(3PIN)	
	S491	ESP0001-018	TACT SWITCH(VOLUME-)	
	S492	ESP0001-018	TACT SWITCH(VOLUME+)	
	S493	ESP0001-018	TACT SWITCH(MUTE)	
	S495	ESP0001-018	TACT SWITCH(POWER)	
	S901	QST4231-E04	PUSH SWITCH(SPK-1)	
	S902	QST4231-E04	PUSH SWITCH(SPK-2)	
	FW414	EWR338-35LST	FLAT WIRE(3PIN)	
	FW415	EWR338-13LST	FLAT WIRE(3PIN)	
	FW711	EWR348-75SST	FLAT WIRE(4PIN)	
	FW712	EWR338-70SST	FLAT WIRE(3PIN)	
	FW803	EWR338-13LST	FLAT WIRE(3PIN)	
	FW811	EWR34E-30LST	FLAT WIRE(4PIN)	
	FW901	EWR338-13LST	FLAT WIRE(3PIN)	
	PA462	VMC0194-P05	MALE CONNECTOR(5PIN)	
	PA701	EMV5109-006A	PLUG ASSY(6PIN)	
	PA702	EMV5109-003A	PLUG ASSY(3PIN)	
	PA801	EMV7125-012R	CONNECTOR(12PIN)	
	PA802	EMV5142-910	PLUG ASSY(10PIN)	
	PA804	EMV5142-409	PLUG ASSY(9PIN)	
	PA871	EMV7125-006R	CONNECTOR(6PIN)	
	PB246	EWS323-A940	SOCKET WIRE(3PIN)	
	PB304	EWS326-A931	SOCKET WIRE(6PIN)	
	PB442	VMC0194-S06	CONNECT TERMINAL(6PIN)	
	PB801	EMV5125-012	PLUG ASSY(12PIN)	
	PB802	EWS32A-A916	SOCKET WIRE(10PIN)	
	PB871	EMV5125-006	PLUG ASSY(6PIN)	
	RY901	ESK5D24-214	RELAY	
	RY941	ESK1D12-118J1	RELAY	
	RY951	ESK7D24-2120	RELAY	
	SW890	OND8-90B	THERMAL SWITCH	

Δ : SAFETY PARTS.

■ END-080 □ Power Supply PC Board Ass'y

Note : END-080 □ varies according to the areas employed. See note (1) when placing an order.



Note (1)

PC Board Ass'y	Designated Areas
END-080 A	the U.S.A.
END-080 B	Canada
END-080 C	Universal Type (with PAL)
END-080 D	Continental Europe (with PAL)
END-080 E	Australia (with PAL)
END-080 F BS	the U.K. (with PAL)
END-080 G	Germany (with PAL)

Transistors

ITEM	PART NUMBER	DESCRIPTION	AREA
Q833	2SD1266(P,Q)	SILICON MATSUSHITA	C
Q834	2SC2235(O,Y)	SILICON TOSHIBA	
Q835	DTC143TS	SILICON ROHM	
Q844	2SD1944(J,K)	SILICON ROHM	
Q845	2SB1187(E,F)	SILICON ROHM	
Q846	2SB1187(E,F)	SILICON ROHM	
Q847	2SB1187(E,F)	SILICON ROHM	
Q848	DTC144ES	SILICON ROHM	
Q850	DTA114YS	SILICON ROHM	
Q851	2SD2061(E,F)	SILICON ROHM	
Q852	DTA144ES	SILICON ROHM	
Q853	DTA144ES	SILICON ROHM	
Q854	DTA144ES	SILICON ROHM	

△ : SAFETY PARTS

Diodes

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
	D831	MTZ15JC	ZENER ROHM	C
	D831	MTZ15JC	ZENER ROHM	D
	D831	MTZ15JC	ZENER ROHM	E
	D831	MTZ15JC	ZENER ROHM	FBS
	D831	MTZ15JC	ZENER ROHM	G
	D832	MTZ13JC	ZENER ROHM	C
	D832	MTZ13JC	ZENER ROHM	D
	D832	MTZ13JC	ZENER ROHM	E
	D832	MTZ13JC	ZENER ROHM	FBS
	D832	MTZ13JC	ZENER ROHM	G
	D833	11E2-TB2	SILICON NIHONINTER	
	D834	11E2-TB2	SILICON NIHONINTER	
	D835	11E2-TB2	SILICON NIHONINTER	
	D836	11E2-TB2	SILICON NIHONINTER	
	D837	MTZ12JC	ZENER ROHM	C
	D838	RD6.2JSB3	ZENER NEC	
	D839	1SS133	SILICON ROHM	
	D845	MTZ16JC	ZENER ROHM	
	D846	1SS133	SILICON ROHM	
	D847	MTZ16JC	ZENER ROHM	
	D848	1SS133	SILICON ROHM	
	D849	MTZ20JC	ZENER ROHM	
	D850	MTZ16JC	ZENER ROHM	
	D851	1SS133	SILICON ROHM	
	D852	MTZ5.1JC	ZENER ROHM	
	D853	MTZ20JC	ZENER ROHM	
	D854	1SS133	SILICON ROHM	
	D855	MTZ20JC	ZENER ROHM	
	D856	1SS133	SILICON ROHM	
	D857	MTZ10JC	ZENER ROHM	
	D858	MTZ9.1JC	ZENER ROHM	
	D859	MTZ9.1JC	ZENER ROHM	
	D860	1SS133	SILICON ROHM	
	D861	1SS133	SILICON ROHM	
	D862	MTZ10JC	ZENER ROHM	
	D863	MTZ3.3JB	ZENER ROHM	

Δ : SAFETY PARTS

Capacitors

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
	C001	QCZ9019-472	4700PF CERAMIC	A
	C001	QCZ9019-472	4700PF CERAMIC	B
	C001	QCZ9019-472	4700PF CERAMIC	C
	C001	QCZ9019-472	4700PF CERAMIC	D
	C001	QCZ9019-472	4700PF CERAMIC	E
	C001	QCZ9019-472BS	4700PF CERAMIC	FBS
	C001	QCZ9019-472	4700PF CERAMIC	G
	C833	QFN82AK-473	0.047MF 100V MYLAR	
	C834	QETB1EM-477	470MF 25V ELECTRO	A
	C834	QETB1EM-477	470MF 25V ELECTRO	B
	C834	QETB1JM-227	220MF 63V ELECTRO	C
	C834	QETB1EM-477	470MF 25V ELECTRO	D
	C834	QETB1EM-477	470MF 25V ELECTRO	E
	C834	QETB1EM-477	470MF 25V ELECTRO	FBS
	C834	QETB1EM-477	470MF 25V ELECTRO	G
	C835	QCF21HP-472	4700PF 50V CERAMIC	C
	C836	QCF21HP-472	4700PF 50V CERAMIC	
	C837	QETB1CM-476	47MF 16V ELECTRO	
	C838	QFN81HK-473	0.047MF 50V MYLAR	
	C839	QFN81HK-473	0.047MF 50V MYLAR	
	C843	QCF21HP-472	4700PF 50V CERAMIC	
	C844	QEHCIEM-476	47MF 25V ELECTRO	
	C845	QEHCIEM-476	47MF 25V ELECTRO	
	C846	QCF21HP-472	4700PF 50V CERAMIC	
	C847	QCF21HP-472	4700PF 50V CERAMIC	
	C848	QCF21HP-472	4700PF 50V CERAMIC	
	C849	QEHCIHM-226	22MF 50V ELECTRO	
	C850	QETB1HM-476	47MF 50V ELECTRO	
	C851	QETB1EM-227	220MF 25V ELECTRO	
	C852	QETB1EM-476	47MF 25V ELECTRO	
	C853	QEHBIHM-227	220MF 50V ELECTRO	
	C854	QEHCIHM-226	22MF 50V ELECTRO	
	C855	QETB1HM-476	47MF 50V ELECTRO	

Δ : SAFETY PARTS

Resistors

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
	R001	QRC128K-275EM	2.7M 1/2W COMPOS	A
	R001	QRC128K-275EM	2.7M 1/2W COMPOS	B
	R830	QRD167J-200	20 1/6W CARBON	E
	R830	QRD167J-200	20 1/6W CARBON	FBS
	R833	QRD14CJ-100S	10 1/4W UNF. CARBON	A
	R833	QRD14CJ-100S	10 1/4W UNF. CARBON	B
	R833	QRZ0076-3R3	3.3 1/4W FUSIBLE	C
	R833	QRZ0077-180	18 1/4W FUSIBLE	D
	R833	QRZ0077-180	18 1/4W FUSIBLE	E
	R833	QRZ0077-180	18 1/4W FUSIBLE	FBS

Δ : SAFETY PARTS

Resistors

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
	R833	GRZ0077-180	18 1/4W FUSIBLE	G
	R834	GRG012J-332A	3.3K 1W O.M.FILM	C
	R835	QRD167J-821	820 1/6W CARBON	A
	R835	QRD167J-821	820 1/6W CARBON	B
	R835	QRD167J-821	820 1/6W CARBON	C
	R835	GRV144F-8200	1/4W M.FILM	D
	R835	GRV144F-9100	1/4W M.FILM	E
	R835	GRV144F-9100	1/4W M.FILM	FBS
	R835	GRV144F-8200	1/4W M.FILM	G
	R836	GRX022J-R68A	0.68 2W M.FILM	A
	R837	GRX022J-R68A	0.68 2W M.FILM	A
	R846	GRG026J-271AF	270 2W O.M.FILM	
	R847	GRG022J-221A	220 2W O.M.FILM	
	R848	GRG022J-221A	220 2W O.M.FILM	
	R849	QRD167J-682	6.8K 1/6W CARBON	
	R850	GRG026J-271AF	270 2W O.M.FILM	
	R851	GRG026J-271AF	270 2W O.M.FILM	
	R852	QRD125J-272	2.7K 1/2W UNF. CARBON	
	R853	GRG022J-220A	22 2W O.M.FILM	
	R854	QRD14CJ-270S	27 1/4W UNF. CARBON	A
	R854	QRD14CJ-100S	10 1/4W UNF. CARBON	B
	R854	QRZ0077-100	10 1/4W FUSIBLE	C
	R854	QRZ0077-100	10 1/4W FUSIBLE	D
	R854	QRZ0077-100	10 1/4W FUSIBLE	E
	R854	QRZ0077-100	10 1/4W FUSIBLE	FBS
	R854	QRZ0077-100	10 1/4W FUSIBLE	G
	R855	GRG012J-562A	5.6K 1W O.M.FILM	
	R856	GRG022J-101A	100 2W O.M.FILM	
	R857	GRG022J-222A	2.2K 2W O.M.FILM	
	R858	QRD14CJ-100S	10 1/4W UNF. CARBON	A
	R858	QRD14CJ-100S	10 1/4W UNF. CARBON	B
	R858	QRZ0077-100	10 1/4W FUSIBLE	C
	R858	QRZ0077-100	10 1/4W FUSIBLE	D
	R858	QRZ0077-100	10 1/4W FUSIBLE	E
	R858	QRZ0077-100	10 1/4W FUSIBLE	FBS
	R858	QRZ0077-100	10 1/4W FUSIBLE	G
	R859	QRD167J-272	2.7K 1/6W CARBON	
	R860	QRD167J-473	47K 1/6W CARBON	
	R861	QRD167J-473	47K 1/6W CARBON	
	R862	QRD167J-102	1K 1/6W CARBON	
	R863	QRD167J-103	10K 1/6W CARBON	
	R864	QRD167J-270	27 1/6W CARBON	
	R865	QRD167J-270	27 1/6W CARBON	
	R866	QRD167J-102	1K 1/6W CARBON	
	R867	QRD167J-103	10K 1/6W CARBON	
	R868	QRD167J-103	10K 1/6W CARBON	
	R869	QRD167J-272	2.7K 1/6W CARBON	
	R870	QRD167J-473	47K 1/6W CARBON	
	R871	QRD167J-103	10K 1/6W CARBON	
	R872	QRD167J-103	10K 1/6W CARBON	
	R873	QRD167J-103	10K 1/6W CARBON	
	R874	QRD167J-103	10K 1/6W CARBON	

Δ : SAFETY PARTS

Others

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
		EMG7331-002	FUSE CLIP	
		EMG7331-002U	FUSE CLIP	
		EW5073-007	SOCKET WIRE	
		EW5102-006	SOCKET WIRE	
		E65654-001	INSULATION TUBE	
		E70945-H25B	HEAT SINK	
		SBSE3010CC	SCREW	
		EMG7331-002	FUSE CLIP	A
		EMG7331-002U	FUSE CLIP	A
		EMW10134-003	CIRCUIT BOARD	A
		ETP1000-42JA	POWER TRANSFORMER	A
		E61380-026	FUSE LABEL	A
		QMC4002-E02S	AC OUTLET	A
		EMG7331-002	FUSE CLIP	B
		EMG7331-002U	FUSE CLIP	B
		EMW10134-003	CIRCUIT BOARD	B
		ETP1000-42JA	POWER TRANSFORMER	B
		E61380-026	FUSE LABEL	B
		QMC4002-E02S	AC OUTLET	B
		EMG7331-002	FUSE CLIP	C
		EMG7331-002U	FUSE CLIP	C
		EMW10134-003	CIRCUIT BOARD	C
		ETP1000-411B	POWER TRANSFORMER	C
		E67132-TR63	FUSE LABEL	C
		E67132-T6R3	FUSE LABEL	C
		E70945-H35B	HEAT SINK	C
		QMC4002-E01S	AC OUTLET	C
		SBSE3010CC	SCREW	C
		EMG7331-002	FUSE CLIP	D
		EMG7331-002U	FUSE CLIP	D
		EMW10134-003	CIRCUIT BOARD	D
		ETP1000-41EA	POWER TRANSFORMER	D
		E67132-TR63	FUSE LABEL	D
		E67132-T3R15	FUSE LABEL	D
		E67132-T6R3	FUSE LABEL	D

Δ : SAFETY PARTS

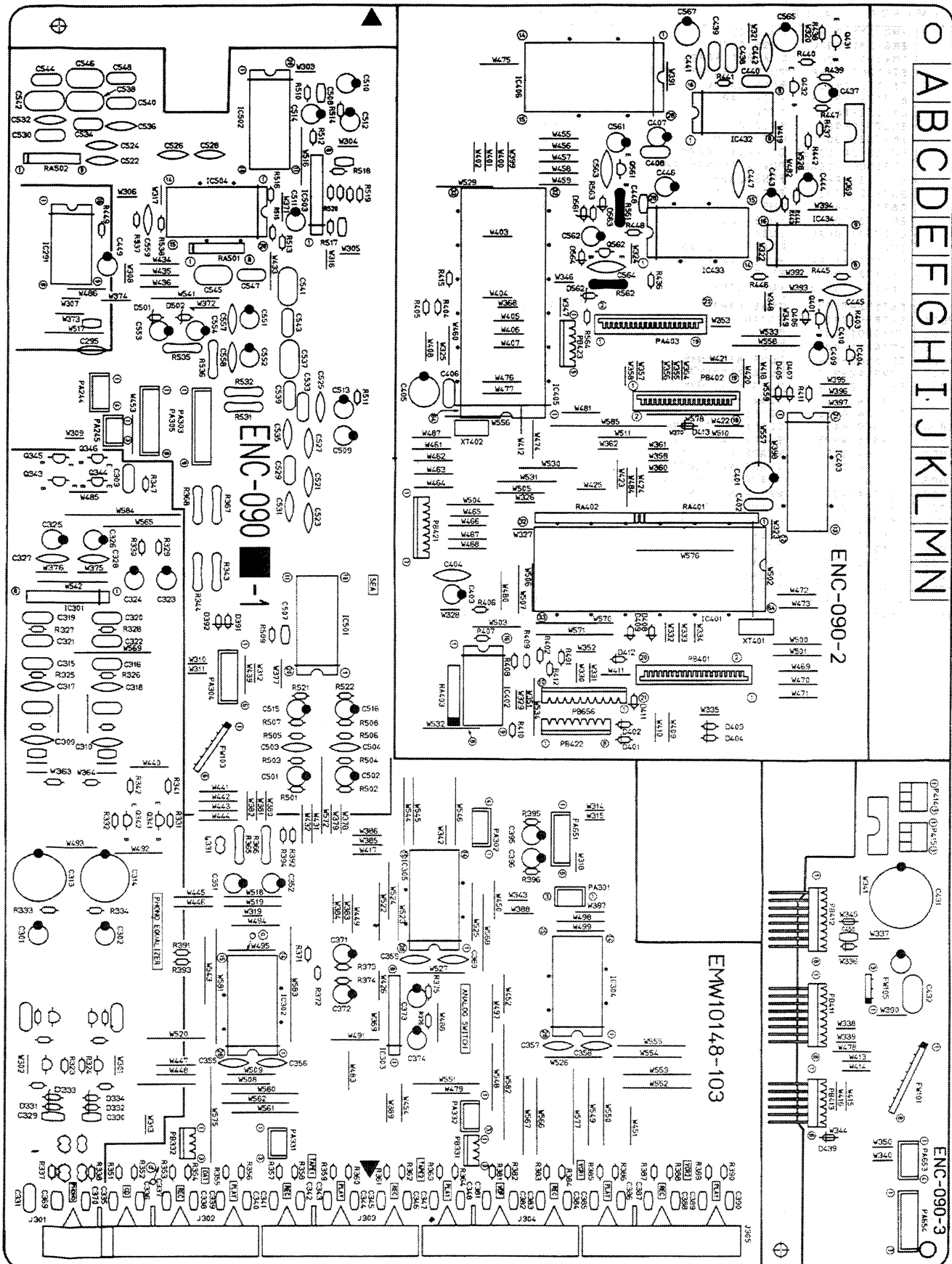
Others

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
Δ		EMG7331-002	FUSE CLIP	E
		EMG7331-002U	FUSE CLIP	E
		EMW10134-003	CIRCUIT BOARD	E
		ETP1000-41EA	POWER TRANSFORMER	E
		E67132-TR63	FUSE LABEL	E
		E67132-T3R15	FUSE LABEL	E
		E67132-T6R3	FUSE LABEL	E
		EMG7331-002	FUSE CLIP	FBS
		EMG7331-002U	FUSE CLIP	FBS
		EMW10134-003BS	CIRCUIT BOARD	FBS
Δ		ETP1000-41EABS	POWER TRANSFORMER	FBS
		E67132-TR63	FUSE LABEL	FBS
		E67132-T3R15	FUSE LABEL	FBS
		E67132-T6R3	FUSE LABEL	FBS
		EMG7331-002	FUSE CLIP	G
Δ		EMG7331-002U	FUSE CLIP	G
		EMW10134-003	CIRCUIT BOARD	G
		ETP1000-41EA	POWER TRANSFORMER	G
		E67132-TR63	FUSE LABEL	G
		E67132-T3R15	FUSE LABEL	G
		E67132-T6R3	FUSE LABEL	G
	EP001	E70859-001	EARTH PLATE	
	KT001	EMZ4001-001	TAB	
	KT002	EMZ4001-001	TAB	
	PA655	EMV5142-904	PLUG ASSY(4PIN)	
	PA812	EMV5142-903	PLUG ASSY(3PIN)	
	PA834	EMV5142-904	PLUG ASSY(4PIN)	
	PA835	EMV5142-905	PLUG ASSY(5PIN)	
	PB653	EWS324-A950	SOCKET WIRE(4PIN)	
	PB804	EWS329-A452	SOCKET WIRE(9PIN)	
	PB835	EWS325-A925	SOCKET WIRE(6PIN)	
	RT001	E67764-102	WRAPPING TERMINAL	
	RT002	E67764-203	WRAPPING TERMINAL	
	RT003	E67764-102	WRAPPING TERMINAL	C
	RT012	E67764-202	WRAPPING TERMINAL	
	RT021	E67764-203	WRAPPING TERMINAL	
	RT031	E67764-103	WRAPPING TERMINAL	
Δ	RY001	ESK1D12-115	RELAY	A
Δ	RY001	ESK1D12-115	RELAY	B
Δ	RY001	ESK1D12-115	RELAY	C
	RY001	ESK1D12-113	RELAY	D
	RY001	ESK1D12-113	RELAY	E
	RY001	ESK1D12-115BS	RELAY	FBS
Δ	RY001	ESK1D12-115	RELAY	G

Δ : SAFETY PARTS

■ ENC-090 □ Source Selector, SEA & System Control PC Board Ass'y

Note : ENC-090 □ varies according to the areas employed. See note (1) when placing an order.



Note (1)

PC Board Ass'y	Designated Areas
ENC-090 A	the U.S.A.
ENC-090 B	Canada
ENC-090 C	Universal Type (with PAL)
ENC-090 D	Continental Europe (with PAL) Germany (with PAL) the U.K. (with PAL)
ENC-090 E	Australia (with PAL)

Transistors

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
	Q301	2SK170(BL)	F.E.T TOSHIBA	
	Q302	2SK170(BL)	F.E.T TOSHIBA	
	Q303	2SK170(BL)	F.E.T TOSHIBA	
	Q304	2SK170(BL)	F.E.T TOSHIBA	
	Q305	2SD655(E,F)	SILICON HITACHI	
	Q306	2SD655(E,F)	SILICON HITACHI	
	Q307	2SD655(E,F)	SILICON HITACHI	
	Q308	2SD655(E,F)	SILICON HITACHI	
	Q341	2SK163(L1)	F.E.T NEC	
	Q342	2SK163(L1)	F.E.T NEC	
	Q343	DTA114YS	SILICON ROHM	
	Q344	DTA114YS	SILICON ROHM	
	Q345	DTC144ES	SILICON ROHM	
	Q346	DTC144ES	SILICON ROHM	
	Q401	DTC114YS	SILICON ROHM	
	Q431	2SC1685(R,S)	SILICON MATSUSHITA	
	Q432	2SC1685(R,S)	SILICON MATSUSHITA	
	Q561	2SC2235(O,Y)	SILICON TOSHIBA	
	Q562	2SA965(O,Y)	SILICON TOSHIBA	

Δ : SAFETY PARTS

I.C.s

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
	IC291	TC74HC595AP	I.C. TOSHIBA	
	IC301	VC4580LD	I.C. DAINICHI	
	IC302	TC9164N	I.C. TOSHIBA	
	IC303	VC4580LD	I.C. DAINICHI	
	IC304	TC9164N	I.C. TOSHIBA	
	IC305	TC9163N	I.C. TOSHIBA	
	IC401	MN171602JPC2	I.C. MATSUSHITA	
	IC402	M66007P	I.C. MITSUBISHI	
	IC403	LC3517BS-15	I.C. SANYO	
	IC404	MN1281(P,Q)	I.C. MATSUSHITA	
	IC405	MN17581JNO	I.C. MATSUSHITA	
	IC406	LH535931	I.C. SHARP	
	IC432	XR-1091DCP	I.C. EXAR JAPAN	
	IC433	TC9162N	I.C. TOSHIBA	
	IC434	UPD7001C	I.C. NEC	
	IC501	LA3607S	I.C. SANYO	
	IC502	LA3607S	I.C. SANYO	
	IC503	VC4580LD	I.C. DAINICHI	
	IC504	LC7522	I.C. SANYO	

Δ : SAFETY PARTS

Diodes

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
	D391	1SS133	SILICON ROHM	
	D392	1SS133	SILICON ROHM	
	D401	1SS133	SILICON ROHM	
	D402	1SS133	SILICON ROHM	
	D403	1SS133	SILICON ROHM	
	D404	1SS133	SILICON ROHM	
	D405	1SS133	SILICON ROHM	
	D406	1SS133	SILICON ROHM	
	D407	1SS133	SILICON ROHM	
	D408	1SS133	SILICON ROHM	
	D409	1SS133	SILICON ROHM	
	D413	1SS133	SILICON ROHM	
	D501	MTZ6.8JC	ZENER ROHM	
	D502	MTZ6.8JC	ZENER ROHM	
	D561	MTZ5.6JC	ZENER ROHM	
	D562	MTZ5.6JC	ZENER ROHM	
	D563	1SS133	SILICON ROHM	
	D564	1SS133	SILICON ROHM	

Δ : SAFETY PARTS

Capacitors

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
	C295	QCF21HP-223	0.022MF 50V CERAMIC	
	C296	QCB81HK-471	470PF 50V CERAMIC	
	C303	QFN81HK-223	0.022MF 50V MYLAR	
	C305	QFN81HJ-103	0.01MF 50V MYLAR	
	C306	QFN81HJ-103	0.01MF 50V MYLAR	
	C307	QCS21HJ-680	68PF 50V CERAMIC	A
	C307	QCS21HJ-680	68PF 50V CERAMIC	B
	C307	QCS21HJ-680	68PF 50V CERAMIC	C
	C307	QCS21HJ-101	100PF 50V CERAMIC	D
	C307	QCS21HJ-680	68PF 50V CERAMIC	E
	C308	QCS21HJ-680	68PF 50V CERAMIC	A
	C308	QCS21HJ-680	68PF 50V CERAMIC	B
	C308	QCS21HJ-680	68PF 50V CERAMIC	C
	C308	QCS21HJ-101	100PF 50V CERAMIC	D
	C308	QCS21HJ-680	68PF 50V CERAMIC	E
	C309	QFN81HJ-822	8200PF 50V MYLAR	
	C310	QFN81HJ-822	8200PF 50V MYLAR	
	C311	QFN81HJ-392	3900PF 50V MYLAR	
	C312	QFN81HJ-392	3900PF 50V MYLAR	
	C313	QETB0JM-228	2200MF 6.3V ELECTRO	
	C314	QETB0JM-228	2200MF 6.3V ELECTRO	
	C315	QFN81HJ-472	4700PF 50V MYLAR	
	C316	QFN81HJ-472	4700PF 50V MYLAR	
	C317	QCS21HJ-331	330PF 50V CERAMIC	
	C318	QCS21HJ-331	330PF 50V CERAMIC	
	C319	QFN81HJ-153	0.015MF 50V MYLAR	
	C320	QFN81HJ-153	0.015MF 50V MYLAR	
	C321	QFN81HJ-272	2700PF 50V MYLAR	
	C322	QFN81HJ-272	2700PF 50V MYLAR	
	C323	QETB1HM-475	4.7MF 50V ELECTRO	
	C324	QETB1HM-475	4.7MF 50V ELECTRO	
	C325	QETB1EM-227	220MF 25V ELECTRO	
	C326	QETB1EM-227	220MF 25V ELECTRO	
	C329	QCB81HK-151	150PF 50V CERAMIC	
	C330	QCB81HK-151	150PF 50V CERAMIC	
	C331	QCZ0202-155	1.5MF 25V CERAMIC	
	C335	QCB81HK-331	330PF 50V CERAMIC	D
	C336	QCB81HK-331	330PF 50V CERAMIC	D
	C337	QCB81HK-331	330PF 50V CERAMIC	D
	C338	QCB81HK-331	330PF 50V CERAMIC	D
	C339	QCB81HK-331	330PF 50V CERAMIC	D
	C340	QCB81HK-331	330PF 50V CERAMIC	D
	C341	QCB81HK-331	330PF 50V CERAMIC	D
	C342	QCB81HK-331	330PF 50V CERAMIC	D
	C343	QCB81HK-331	330PF 50V CERAMIC	D
	C344	QCB81HK-331	330PF 50V CERAMIC	D
	C345	QCB81HK-331	330PF 50V CERAMIC	D
	C346	QCB81HK-331	330PF 50V CERAMIC	D
	C347	QCB81HK-331	330PF 50V CERAMIC	D
	C348	QCB81HK-331	330PF 50V CERAMIC	D
	C351	QETB1EM-476	47MF 25V ELECTRO	
	C352	QETB1EM-476	47MF 25V ELECTRO	
	C355	QCF21HP-223	0.022MF 50V CERAMIC	
	C356	QCF21HP-223	0.022MF 50V CERAMIC	
	C357	QCF21HP-223	0.022MF 50V CERAMIC	
	C358	QCF21HP-223	0.022MF 50V CERAMIC	
	C359	QCF21HP-223	0.022MF 50V CERAMIC	
	C360	QCF21HP-223	0.022MF 50V CERAMIC	
	C369	QCS21HJ-471	470PF 50V CERAMIC	D
	C370	QCS21HJ-471	470PF 50V CERAMIC	D
	C371	QETB1EM-106	10MF 25V ELECTRO	
	C372	QETB1EM-106	10MF 25V ELECTRO	
	C373	QETB1EM-106	10MF 25V ELECTRO	
	C374	QETB1EM-106	10MF 25V ELECTRO	
	C381	QCB81HK-331	330PF 50V CERAMIC	D
	C382	QCB81HK-331	330PF 50V CERAMIC	D
	C383	QCB81HK-331	330PF 50V CERAMIC	D
	C384	QCB81HK-331	330PF 50V CERAMIC	D
	C385	QCB81HK-331	330PF 50V CERAMIC	D
	C386	QCB81HK-331	330PF 50V CERAMIC	D
	C387	QCB81HK-331	330PF 50V CERAMIC	D
	C388	QCB81HK-331	330PF 50V CERAMIC	D
	C389	QCB81HK-331	330PF 50V CERAMIC	D
	C390	QCB81HK-331	330PF 50V CERAMIC	D
	C395	QETB1EM-106	10MF 25V ELECTRO	
	C396	QETB1EM-106	10MF 25V ELECTRO	
	C401	EEZ0603-108	1000MF ELECTRO	
	C402	QCZ0205-155	1.5MF 25V CERAMIC	
	C403	QETB1AM-107	100MF 10V ELECTRO	
	C404	QCF21HP-103	0.01MF 50V CERAMIC	
	C405	QETB0JM-477	470MF 6.3V ELECTRO	
	C406	QCZ0205-155	1.5MF 25V CERAMIC	
	C407	QETB1AM-107	100MF 10V ELECTRO	
	C408	QCZ0205-155	1.5MF 25V CERAMIC	
	C409	QETB1HM-225	2.2MF 50V ELECTRO	
	C410	QCY21HK-102	1000PF 50V CERAMIC	
	C431	QETB2AM-227	220MF 100V ELECTRO	
	C432	QFN81HJ-104	0.1MF 50V MYLAR	
	C437	QETB1HM-474	0.47MF 50V ELECTRO	
	C438	QFN81HK-102	1000PF 50V MYLAR	

Δ : SAFETY PARTS

Capacitors

Δ	ITEM	PART NUMBER	DESCRIPTION			AREA
	C439	QC20205-155	1.5MF	25V	CERAMIC	
	C440	QC20205-155	1.5MF	25V	CERAMIC	
	C441	QCF21HP-103	0.01MF	50V	CERAMIC	
	C442	QCF21HP-103	0.01MF	50V	CERAMIC	
	C443	QETB1CM-476	47MF	16V	ELECTRO	
	C444	QETB1CM-476	47MF	16V	ELECTRO	
	C445	QCS21HJ-470	47PF	50V	CERAMIC	
	C446	QETB1EM-476	47MF	25V	ELECTRO	
	C447	QCS21HJ-680	68PF	50V	CERAMIC	
	C448	QCHB1EZ-223	0.022MF	25V	CERAMIC	
	C449	QETB1HM-475	4.7MF	50V	ELECTRO	
	C450	QCB81HK-331	330PF	50V	CERAMIC	D
	C501	QETB1EM-106	10MF	25V	ELECTRO	
	C502	QETB1EM-106	10MF	25V	ELECTRO	
	C503	QCS21HJ-470	47PF	50V	CERAMIC	
	C504	QCS21HJ-470	47PF	50V	CERAMIC	
	C507	QCB81HK-101	100PF	50V	CERAMIC	
	C508	QCB81HK-101	100PF	50V	CERAMIC	
	C509	QETB1CM-226	22MF	16V	ELECTRO	
	C510	QETB1CM-226	22MF	16V	ELECTRO	
	C511	QETB1HM-475	4.7MF	50V	ELECTRO	
	C512	QETB1HM-475	4.7MF	50V	ELECTRO	
	C513	QETB1CM-226	22MF	16V	ELECTRO	
	C514	QETB1CM-226	22MF	16V	ELECTRO	
	C515	QETB1HM-475	4.7MF	50V	ELECTRO	
	C516	QETB1HM-475	4.7MF	50V	ELECTRO	
	C521	QCY21HK-272	2700PF	50V	CERAMIC	
	C522	QCY21HK-272	2700PF	50V	CERAMIC	
	C523	QCS21HJ-471	470PF	50V	CERAMIC	
	C524	QCS21HJ-471	470PF	50V	CERAMIC	
	C525	QCY21HK-682	6800PF	50V	CERAMIC	
	C526	QCY21HK-682	6800PF	50V	CERAMIC	
	C527	QCY21HK-122	1200PF	50V	CERAMIC	
	C528	QCY21HK-122	1200PF	50V	CERAMIC	
	C529	QFN81HK-183	0.018MF	50V	MYLAR	
	C530	QFN81HK-183	0.018MF	50V	MYLAR	
	C531	QCY21HK-272	2700PF	50V	CERAMIC	
	C532	QCY21HK-272	2700PF	50V	CERAMIC	
	C533	QFN81HK-473	0.047MF	50V	MYLAR	
	C534	QFN81HK-473	0.047MF	50V	MYLAR	
	C535	QCY21HK-682	6800PF	50V	CERAMIC	
	C536	QCY21HK-682	6800PF	50V	CERAMIC	
	C537	QFN81HK-104	0.1MF	50V	MYLAR	
	C538	QFN81HK-104	0.1MF	50V	MYLAR	
	C539	QFN81HK-183	0.018MF	50V	MYLAR	
	C540	QFN81HK-183	0.018MF	50V	MYLAR	
	C541	QFV81HJ-274	0.27MF	50V	T.FILM	
	C542	QFV81HJ-274	0.27MF	50V	T.FILM	
	C543	QFN81HK-473	0.047MF	50V	MYLAR	
	C544	QFN81HK-473	0.047MF	50V	MYLAR	
	C545	QFV81HJ-684	0.68MF	50V	T.FILM	
	C546	QFV81HJ-684	0.68MF	50V	T.FILM	
	C547	QFN81HK-124	0.12MF	50V	MYLAR	
	C548	QFN81HK-124	0.12MF	50V	MYLAR	
	C551	QETB1HM-476	47MF	50V	ELECTRO	
	C552	QETB1HM-476	47MF	50V	ELECTRO	
	C553	QETB1HM-475	4.7MF	50V	ELECTRO	
	C554	QETB1HM-475	4.7MF	50V	ELECTRO	
	C557	QCF21HP-223	0.022MF	50V	CERAMIC	
	C558	QCF21HP-223	0.022MF	50V	CERAMIC	
	C559	QCF21HP-223	0.022MF	50V	CERAMIC	
	C561	QETB1CM-476	47MF	16V	ELECTRO	
	C562	QETB1CM-476	47MF	16V	ELECTRO	
	C563	QCY21HK-472	4700PF	50V	CERAMIC	
	C564	QCY21HK-472	4700PF	50V	CERAMIC	
	C565	QETB1AM-107	100NF	10V	ELECTRO	
	C567	QETB1AM-107	100MF	10V	ELECTRO	

Δ : SAFETY PARTS

Resistors

Δ	ITEM	PART NUMBER	DESCRIPTION			AREA
	R301	QRD167J-5R6	5.6	1/6W	CARBON	
	R302	QRD167J-5R6	5.6	1/6W	CARBON	
	R303	QRD167J-101	100	1/6W	CARBON	
	R304	QRD167J-101	100	1/6W	CARBON	
	R305	QRD167J-562	5.6K	1/6W	CARBON	
	R306	QRD167J-562	5.6K	1/6W	CARBON	
	R307	QRD167J-562	5.6K	1/6W	CARBON	
	R308	QRD167J-562	5.6K	1/6W	CARBON	
	R309	QRD167J-270	27	1/6W	CARBON	
	R310	QRD167J-270	27	1/6W	CARBON	
	R311	QRD167J-561	560	1/6W	CARBON	
	R312	QRD167J-561	560	1/6W	CARBON	
	R313	QRD167J-222	2.2K	1/6W	CARBON	
	R314	QRD167J-222	2.2K	1/6W	CARBON	
	R315	QRD167J-272	2.7K	1/6W	CARBON	

Δ : SAFETY PARTS

Resistors

Δ	ITEM	PART NUMBER	DESCRIPTION			AREA
	R316	QRD167J-272	2.7K	1/6W	CARBON	
	R317	QRD167J-273	27K	1/6W	CARBON	
	R318	QRD167J-273	27K	1/6W	CARBON	
	R319	QRD167J-273	27K	1/6W	CARBON	
	R320	QRD167J-273	27K	1/6W	CARBON	
	R321	QRD167J-181	180	1/6W	CARBON	
	R322	QRD167J-181	180	1/6W	CARBON	
	R323	QRD167J-200	20	1/6W	CARBON	
	R324	QRD167J-200	20	1/6W	CARBON	
	R325	QRD167J-153	15K	1/6W	CARBON	
	R326	QRD167J-153	15K	1/6W	CARBON	
	R327	QRD167J-184	180K	1/6W	CARBON	
	R328	QRD167J-184	180K	1/6W	CARBON	
	R329	QRD167J-331	330	1/6W	CARBON	
	R330	QRD167J-331	330	1/6W	CARBON	
	R331	QRD167J-104	100K	1/6W	CARBON	
	R332	QRD167J-104	100K	1/6W	CARBON	
	R333	QRD167J-473	47K	1/6W	CARBON	
	R334	QRD167J-473	47K	1/6W	CARBON	
	R335	QRD167J-471	470	1/6W	CARBON	
	R336	QRD167J-471	470	1/6W	CARBON	
	R337	QRD167J-331	330	1/6W	CARBON	D
	R338	QRD167J-331	330	1/6W	CARBON	D
	R341	QRD167J-473	47K	1/6W	CARBON	
	R342	QRD167J-473	47K	1/6W	CARBON	
Δ	R343	QRD14CJ-680S	68	1/4W	UNF. CARBON	A
Δ	R343	QRZ0077-680	68	1/4W	FUSIBLE	B
Δ	R343	QRZ0077-680	68	1/4W	FUSIBLE	C
Δ	R343	QRZ0077-680	68	1/4W	FUSIBLE	D
Δ	R343	QRZ0077-680	68	1/4W	FUSIBLE	E
Δ	R344	QRD14CJ-680S	68	1/4W	UNF. CARBON	A
Δ	R344	QRZ0077-680	68	1/4W	FUSIBLE	B
Δ	R344	QRZ0077-680	68	1/4W	FUSIBLE	C
Δ	R344	QRZ0077-680	68	1/4W	FUSIBLE	D
Δ	R344	QRZ0077-680	68	1/4W	FUSIBLE	E
	R347	QRD167J-104	100K	1/6W	CARBON	
	R351	QRD167J-471	470	1/6W	CARBON	
	R352	QRD167J-471	470	1/6W	CARBON	
	R353	QRD167J-471	470	1/6W	CARBON	
	R354	QRD167J-471	470	1/6W	CARBON	
	R355	QRD167J-471	470	1/6W	CARBON	
	R356	QRD167J-471	470	1/6W	CARBON	
	R357	QRD167J-471	470	1/6W	CARBON	
	R358	QRD167J-471	470	1/6W	CARBON	
	R359	QRD167J-471	470	1/6W	CARBON	
	R360	QRD167J-471	470	1/6W	CARBON	
	R361	QRD167J-471	470	1/6W	CARBON	A
	R361	QRD167J-471	470	1/6W	CARBON	B
	R361	QRD167J-471	470	1/6W	CARBON	C
	R361	QRD167J-102	1K	1/6W	CARBON	D
	R361	QRD167J-471	470	1/6W	CARBON	E
	R362	QRD167J-471	470	1/6W	CARBON	A
	R362	QRD167J-471	470	1/6W	CARBON	B
	R362	QRD167J-471	470	1/6W	CARBON	C
	R362	QRD167J-102	1K	1/6W	CARBON	D
	R362	QRD167J-471	470	1/6W	CARBON	E
	R363	QRD167J-471	470	1/6W	CARBON	
	R364	QRD167J-471	470	1/6W	CARBON	
Δ	R365	QRD14CJ-680S	68	1/4W	UNF. CARBON	A
Δ	R365	QRZ0077-680	68	1/4W	FUSIBLE	B
Δ	R365	QRZ0077-680	68	1/4W	FUSIBLE	C
Δ	R365	QRZ0077-680	68	1/4W	FUSIBLE	D
Δ	R365	QRZ0077-680	68	1/4W	FUSIBLE	E
Δ	R366	QRD14CJ-680S	68	1/4W	UNF. CARBON	A
Δ	R366	QRZ0077-680	68	1/4W	FUSIBLE	B
Δ	R366	QRZ0077-680	68	1/4W	FUSIBLE	C
Δ	R366	QRZ0077-680	68	1/4W	FUSIBLE	D
Δ	R366	QRZ0077-680	68	1/4W	FUSIBLE	E
Δ	R367	QRD14CJ-100S	10	1/4W	UNF. CARBON	A
Δ	R367	QRZ0077-100	10	1/4W	FUSIBLE	B
Δ	R367	QRZ0077-100	10	1/4W	FUSIBLE	C
Δ	R367	QRZ0077-100	10	1/4W	FUSIBLE	D
Δ	R367	QRZ0077-100	10	1/4W	FUSIBLE	E
Δ	R368	QRD14CJ-100S	10	1/4W	UNF. CARBON	A
Δ	R368	QRZ0077-100	10	1/4W	FUSIBLE	B
Δ	R368	QRZ0077-100	10	1/4W	FUSIBLE	C
Δ	R368	QRZ0077-100	10	1/4W	FUSIBLE	D
Δ	R368	QRZ0077-100	10	1/4W	FUSIBLE	E
	R371	QRD167J-683	68K	1/6W	CARBON	
	R372	QRD167J-683	68K	1/6W	CARBON	
	R373	QRD167J-154	150K	1/6W	CARBON	
	R374	QRD167J-154	150K	1/6W	CARBON	
	R375	QRD167J-104	100K	1/6W	CARBON	
	R376	QRD167J-104	100K	1/6W	CARBON	
	R381	QRD167J-471	470	1/6W	CARBON	
	R382	QRD167J-471	470	1/6W	CARBON	
	R383	QRD167J-471	470	1/6W	CARBON	
	R384	QRD167J-471	470	1/6W	CARBON	
	R385	QRD167J-471	470	1/6W	CARBON	
	R386	QRD167J-471	470	1/6W	CARBON	

Δ : SAFETY PARTS

Resistors

Δ	ITEM	PART NUMBER	DESCRIPTION		AREA
	R387	QRD167J-471	470	1/6W CARBON	
	R388	QRD167J-471	470	1/6W CARBON	
	R389	QRD167J-471	470	1/6W CARBON	
	R390	QRD167J-471	470	1/6W CARBON	
	R391	QRD167J-103	10K	1/6W CARBON	
	R392	QRD167J-512	5.1K	1/6W CARBON	
	R393	QRD167J-103	10K	1/6W CARBON	
	R394	QRD167J-512	5.1K	1/6W CARBON	
	R395	QRD167J-104	100K	1/6W CARBON	
	R396	QRD167J-104	100K	1/6W CARBON	
	R401	QRD167J-473	47K	1/6W CARBON	
	R402	QRD167J-473	47K	1/6W CARBON	
	R403	QRD167J-473	47K	1/6W CARBON	
	R404	QRD167J-104	100K	1/6W CARBON	
	R405	QRD167J-104	100K	1/6W CARBON	
	R406	QRD167J-473	47K	1/6W CARBON	
	R407	QRD167J-102	1K	1/6W CARBON	
	R408	QRD167J-473	47K	1/6W CARBON	
	R409	QRD167J-473	47K	1/6W CARBON	
	R410	QRD167J-473	47K	1/6W CARBON	
	R411	QRD167J-473	47K	1/6W CARBON	
	R412	QRD167J-473	47K	1/6W CARBON	
	R415	QRD167J-103	10K	1/6W CARBON	
	R436	QRD167J-273	27K	1/6W CARBON	
	R437	QRD167J-153	15K	1/6W CARBON	
	R438	QRD167J-562	5.6K	1/6W CARBON	
	R439	QRD167J-103	10K	1/6W CARBON	
	R440	QRD167J-393	39K	1/6W CARBON	
	R441	QRD167J-152	1.5K	1/6W CARBON	
	R442	QRD167J-470	47	1/6W CARBON	
	R443	QRD167J-223	22K	1/6W CARBON	
	R444	QRD167J-223	22K	1/6W CARBON	
	R445	QRD167J-273	27K	1/6W CARBON	
	R446	QRD167J-682	6.8K	1/6W CARBON	
	R447	QRD167J-104	100K	1/6W CARBON	
	R448	QRD167J-220	22	1/6W CARBON	
	R449	QRD167J-104	100K	1/6W CARBON	
	R501	QRD167J-153	15K	1/6W CARBON	
	R502	QRD167J-153	15K	1/6W CARBON	
	R503	QRD167J-104	100K	1/6W CARBON	
	R504	QRD167J-104	100K	1/6W CARBON	
	R505	QRD167J-823	82K	1/6W CARBON	
	R506	QRD167J-823	82K	1/6W CARBON	
	R507	QRD167J-101	100	1/6W CARBON	
	R508	QRD167J-101	100	1/6W CARBON	
	R509	QRD167J-103	10K	1/6W CARBON	
	R510	QRD167J-103	10K	1/6W CARBON	
	R511	QRD167J-103	10K	1/6W CARBON	
	R512	QRD167J-103	10K	1/6W CARBON	
	R513	QRD167J-224	220K	1/6W CARBON	
	R514	QRD167J-224	220K	1/6W CARBON	
	R515	QRD167J-224	220K	1/6W CARBON	
	R516	QRD167J-224	220K	1/6W CARBON	
	R517	QRD167J-223	22K	1/6W CARBON	
	R518	QRD167J-223	22K	1/6W CARBON	
	R519	QRD167J-333	33K	1/6W CARBON	
	R520	QRD167J-333	33K	1/6W CARBON	
	R521	QRD167J-104	100K	1/6W CARBON	
	R522	QRD167J-104	100K	1/6W CARBON	
Δ	R531	QRD14CJ-560S	56	1/4W UNF. CARBON	A
Δ	R531	QRZ0077-560	56	1/4W FUSIBLE	B
Δ	R531	QRZ0077-560	56	1/4W FUSIBLE	C
Δ	R531	QRZ0077-560	56	1/4W FUSIBLE	D
Δ	R531	QRZ0077-560	56	1/4W FUSIBLE	E
Δ	R532	QRD14CJ-560S	56	1/4W UNF. CARBON	A
Δ	R532	QRZ0077-560	56	1/4W FUSIBLE	B
Δ	R532	QRZ0077-560	56	1/4W FUSIBLE	C
Δ	R532	QRZ0077-560	56	1/4W FUSIBLE	D
Δ	R532	QRZ0077-560	56	1/4W FUSIBLE	E
Δ	R535	QRD12CJ-221S	220	1/2W R.NETWORK	A
Δ	R535	QRD12CJ-221S	220	1/2W R.NETWORK	B
Δ	R535	QRD14CJ-331S	330	1/4W UNF. CARBON	C
Δ	R535	QRD14CJ-331S	330	1/4W UNF. CARBON	D
Δ	R535	QRD14CJ-331S	330	1/4W UNF. CARBON	E
Δ	R536	QRD14CJ-271S	270	1/4W UNF. CARBON	
	R537	QRD167J-681	680	1/6W CARBON	
	R538	QRD167J-272	2.7K	1/6W CARBON	
Δ	R561	QRD14CJ-100S	10	1/4W UNF. CARBON	
Δ	R562	QRD14CJ-100S	10	1/4W UNF. CARBON	
	R563	QRD167J-272	2.7K	1/6W CARBON	
	R564	QRD167J-272	2.7K	1/6W CARBON	
	RA401	QRB169J-104	100K	1/10W R.NETWORK	
	RA402	QRB149J-104	100K	1/10W R.NETWORK	
	RA403	QRB055J-473	47K	1/8W R.NETWORK	
	RA501	QRB079J-474	470K	1/10W R.NETWORK	
	RA502	QRB079J-474	470K	1/10W R.NETWORK	

Δ : IS A FETTY PART IS

Others

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
		EMV10148-003	CIRCUIT BOARD	
	J301	EMN00TV-209A	2P PIN JACK	
	J302	EMN00TV-613A	6P PIN JACK	
	J303	EMN00TV-613A	6P PIN JACK	
	J304	EMN00TV-613A	6P PIN JACK	
	J305	EMN00TV-613A	6P PIN JACK	
	L337	EQL4004-270	INDUCTOR	D
	L338	EQL4004-270	INDUCTOR	D
	L339	EQL4004-220	INDUCTOR	D
	L340	EQL4004-220	INDUCTOR	D
	P414	EMV7122-103	CONNECTOR(3PIN)	
	P415	EMV7122-103	CONNECTOR(3PIN)	
	EP401	E70859-001	EARTH PLATE	
	FW101	EWR388-35KST	FLAT WIRE(8PIN)	
	FW103	EWR368-25KST	FLAT WIRE(8PIN)	
	FW105	EWR338-50KST	FLAT WIRE(8PIN)	
	PA244	EMV5142-904	PLUG ASSY(4PIN)	C
	PA301	EMV5109-003A	PLUG ASSY(3PIN)	
	PA302	EMV5109-004A	PLUG ASSY(4PIN)	
	PA303	EMV5142-909	PLUG ASSY(8PIN)	
	PA304	EMV5142-906	PLUG ASSY(6PIN)	
	PA305	EMV5142-908	PLUG ASSY(8PIN)	
	PA331	EMV5109-003A	PLUG ASSY(3PIN)	
	PA332	EMV5109-003A	PLUG ASSY(3PIN)	
	PA403	EMV7123-020	CONNECTOR(20PIN)	
	PA651	EMV5109-006A	PLUG ASSY(6PIN)	
	PA653	EMV5142-904	PLUG ASSY(4PIN)	
	PA654	EMV5142-907	PLUG ASSY(7PIN)	
	PB331	EWS293-0108	SOCKET WIRE(3PIN)	
	PB332	EWS293-0111	SOCKET WIRE(3PIN)	
	PB401	EMV7123-021	CONNECTOR(21PIN)	
	PB402	EMV7123-019	CONNECTOR(19PIN)	
	PB411	EMV5122-008R	PLUG ASSY(8PIN)	
	PB412	EMV5122-008R	PLUG ASSY(8PIN)	
	PB413	EMV5122-006R	PLUG ASSY(6PIN)	
	PB421	EWS327-A932	SOCKET WIRE(7PIN)	
	PB422	EWS328-A946	SOCKET WIRE(8PIN)	
	PB423	EWS325-A945	SOCKET WIRE(6PIN)	
	XT401	ECX0060-000EM	RESONATOR	
	XT402	ECX0072-000EM	RESONATOR	

Δ : IS A FETTY PART IS

Note (1)

PC Board Ass'y	Designated Areas
ENB-137 A	the U.S.A.
ENB-137 B	Canada
ENB-137 C	Universal Type (with PAL)
ENB-137 D	Continental Europe (with PAL) Germany (with PAL) the U.K. (with PAL)
ENB-137 E	Australia (with PAL)

Transistors

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
	Q211	2SK301(P,Q)	F.E.T MATSUSHITA	
	Q212	2SK301(P,Q)	F.E.T MATSUSHITA	
	Q213	2SK301(P,Q)	F.E.T MATSUSHITA	
	Q214	2SK301(P,Q)	F.E.T MATSUSHITA	
	Q215	DTA114YS	SILICON ROHM	
	Q216	DTC144ES	SILICON ROHM	
	Q221	2SK301(P,Q)	F.E.T MATSUSHITA	
	Q222	2SK301(P,Q)	F.E.T MATSUSHITA	
	Q231	2SK301(P,Q)	F.E.T MATSUSHITA	
	Q232	2SK301(P,Q)	F.E.T MATSUSHITA	
	Q233	2SK301(P,Q)	F.E.T MATSUSHITA	
	Q234	2SK301(P,Q)	F.E.T MATSUSHITA	
	Q251	DTA114YS	SILICON ROHM	
	Q252	DTC144ES	SILICON ROHM	
	Q253	DTC144ES	SILICON ROHM	
	Q254	2SC1740(R,S)	SILICON ROHM	
	Q261	2SK301(P,Q)	F.E.T MATSUSHITA	
	Q262	2SK301(P,Q)	F.E.T MATSUSHITA	
	Q381	DTC114YS	SILICON ROHM	
	Q382	DTC144ES	SILICON ROHM	
	Q383	DTC114YS	SILICON ROHM	
	Q421	2SC1740S(R,S)	SILICON ROHM	
	Q422	2SC1740S(R,S)	SILICON ROHM	
	Q461	DTC114ES	SILICON ROHM	
	Q462	DTC114ES	SILICON ROHM	
	Q463	DTC114ES	SILICON ROHM	
	Q465	2SC1740S(R,S)	SILICON ROHM	
	Q466	2SC1740S(R,S)	SILICON ROHM	

Δ : SAFETY PARTS

I.C.s

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
	IC211	TC9177P	I.C. TOSHIBA	
	IC212	VC4580LD	I.C. DAINICHI	
	IC221	TC9176P	I.C. TOSHIBA	
	IC222	VC4580L	I.C. DAINICHI	
	IC231	TC9176P	I.C. TOSHIBA	
	IC232	VC4580L	I.C. DAINICHI	
	IC261	UPC324C	I.C. NEC	
	IC281	UPC324C	I.C. NEC	
	IC421	LC6514B-4131	I.C. SANYO	
	IC461	MN171202JPD	I.C. MATSUSHITA	
	IC462	TC74HC154P	I.C. TOSHIBA	
	IC463	MSL915ARS	I.C. NIHON DENSO	
	IC464	MSL915ARS	I.C. NIHON DENSO	
	IC465	MSC7112-01SS	I.C. NIHON DENSO	
	IC466	GP1U501X	I.C. SHARP	

Δ : SAFETY PARTS

Diodes

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
	D251	1SS133	SILICON ROHM	
	D252	1SS133	SILICON ROHM	
	D253	1SS133	SILICON ROHM	
	D254	MTZ3.9JB	ZENER ROHM	
	D255	1SS133	SILICON ROHM	
	D381	1SS133	SILICON ROHM	
	D382	1SS133	SILICON ROHM	
	D383	1SS133	SILICON ROHM	
	D384	1SS133	SILICON ROHM	
	D385	MTZ6.2JC	ZENER ROHM	
	D421	1SS133	SILICON ROHM	
	D422	1SS133	SILICON ROHM	
	D426	1SS133	SILICON ROHM	
	D427	1SS133	SILICON ROHM	
	D428	1SS133	SILICON ROHM	

Δ : SAFETY PARTS

Diodes

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
	D430	1SS133	SILICON ROHM	
	D431	1SS133	SILICON ROHM	
	D432	1SS133	SILICON ROHM	
	D433	1SS133	SILICON ROHM	
	D434	1SS133	SILICON ROHM	
	D435	1SS133	SILICON ROHM	
	D436	1SS133	SILICON ROHM	
	D436	1SS133	SILICON ROHM	
	D437	1SS133	SILICON ROHM	
	D437	1SS133	SILICON ROHM	
	D439	1SS133	SILICON ROHM	
	D443	MTZ8.2JC	ZENER ROHM	
	D444	MTZ8.2JC	ZENER ROHM	
	D445	MTZ8.2JC	ZENER ROHM	
	D446	MTZ8.2JC	ZENER ROHM	
	D447	MTZ8.2JC	ZENER ROHM	
	D448	MTZ8.2JC	ZENER ROHM	
	D449	MTZ8.2JC	ZENER ROHM	
	D450	MTZ8.2JC	ZENER ROHM	
	D451	MTZ8.2JC	ZENER ROHM	
	D452	MTZ8.2JC	ZENER ROHM	
	D453	MTZ8.2JC	ZENER ROHM	
	D454	MTZ8.2JC	ZENER ROHM	
	D455	MTZ8.2JC	ZENER ROHM	
	D461	1SS133	SILICON ROHM	
	D461	1SS133	SILICON ROHM	
	D461	1SS133	SILICON ROHM	
	D462	1SS133	SILICON ROHM	
	D463	1SS133	SILICON ROHM	
	D464	1SS133	SILICON ROHM	
	D465	1SS133	SILICON ROHM	
	D466	1SS133	SILICON ROHM	
	D467	1SS133	SILICON ROHM	
	D468	1SS133	SILICON ROHM	
	D469	1SS133	SILICON ROHM	
	D470	1SS133	SILICON ROHM	
	D471	1SS133	SILICON ROHM	
	D472	1SS133	SILICON ROHM	
	D473	1SS133	SILICON ROHM	
	D475	1SS133	SILICON ROHM	
	D476	1SS133	SILICON ROHM	
	D477	1SS133	SILICON ROHM	
	D478	1SS133	SILICON ROHM	
	D479	1SS133	SILICON ROHM	
	D480	SLR-54VC70F124	L.E.D. ROHM	
	D480	SLR-54VC70F124	L.E.D. ROHM	
	D480	SLR-54VC70F124	L.E.D. ROHM	
	D480	SLA-580LT70F124	L.E.D. ROHM	
	D480	SLR-54VC70F124	L.E.D. ROHM	
	D481	SLR-34DC50F124	L.E.D. ROHM	
	D482	SLR-34YC50F124	L.E.D. ROHM	
	D483	SLR-34YC50F124	L.E.D. ROHM	
	D484	SLR-34YC50F124	L.E.D. ROHM	
	D891	MTZ16JC	ZENER ROHM	
	D891	MTZ16JC	ZENER ROHM	
	D891	MTZ16JC	ZENER ROHM	

Δ : SAFETY PARTS

Capacitors

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
	C211	QEK51HM-475	4.7MF 50V ELECTRO	
	C212	QEK51HM-475	4.7MF 50V ELECTRO	
	C213	QCS21HJ-181	180PF 50V CERAMIC	
	C214	QCS21HJ-181	180PF 50V CERAMIC	
	C215	QFN81HK-333	0.033MF 50V MYLAR	
	C216	QFN81HK-333	0.033MF 50V MYLAR	
	C217	QETB1HM-105	1MF 50V ELECTRO	
	C218	QETB1HM-105	1MF 50V ELECTRO	
	C219	QETB1EM-106	10MF 25V ELECTRO	
	C220	QETB1EM-106	10MF 25V ELECTRO	
	C221	QETB1HM-225	2.2MF 50V ELECTRO	
	C223	QCF21HP-223	0.022MF 50V CERAMIC	
	C224	QCF21HP-223	0.022MF 50V CERAMIC	
	C225	QEK51HM-475	4.7MF 50V ELECTRO	
	C226	QEK51HM-105G	1MF 50V ELECTRO	
	C227	QEK51EM-106	10MF 25V ELECTRO	
	C229	QCF21HP-223	0.022MF 50V CERAMIC	
	C230	QCF21HP-223	0.022MF 50V CERAMIC	
	C231	QEK51HM-475	4.7MF 50V ELECTRO	
	C232	QEK51HM-475	4.7MF 50V ELECTRO	
	C233	QEK51HM-105G	1MF 50V ELECTRO	
	C234	QEK51HM-105G	1MF 50V ELECTRO	
	C235	QEK51EM-106	10MF 25V ELECTRO	
	C236	QEK51EM-106	10MF 25V ELECTRO	
	C237	QCF21HP-223	0.022MF 50V CERAMIC	
	C238	QCF21HP-223	0.022MF 50V CERAMIC	
	C241	QEK51EM-476	47MF 25V ELECTRO	
	C242	QEK51EM-476	47MF 25V ELECTRO	
	C251	QETB1HM-475	4.7MF 50V ELECTRO	
	C252	QETB1EM-227	220MF 25V ELECTRO	

Δ : SAFETY PARTS

Capacitors

Δ	ITEM	PART NUMBER	DESCRIPTION			AREA
	C253	QETB1EM-106	10MF	25V	ELECTRO	
	C263	QEK51HM-475	4.7MF	50V	ELECTRO	
	C264	QEK51HM-475	4.7MF	50V	ELECTRO	
	C265	QEK51HM-475	4.7MF	50V	ELECTRO	
	C266	QEK51HM-475	4.7MF	50V	ELECTRO	
	C272	QEK51HM-475	4.7MF	50V	ELECTRO	
	C273	QEK51HM-475	4.7MF	50V	ELECTRO	
	C281	QCSB1HJ-680	68PF	50V	CERAMIC	
	C282	QCSB1HJ-680	68PF	50V	CERAMIC	
	C283	QEK51HM-475	4.7MF	50V	ELECTRO	
	C284	QEK51HM-475	4.7MF	50V	ELECTRO	
	C285	QEK51HM-475	4.7MF	50V	ELECTRO	
	C286	QEK51HM-475	4.7MF	50V	ELECTRO	
	C287	QCSB1HJ-680	68PF	50V	CERAMIC	
	C288	QEK51HM-475	4.7MF	50V	ELECTRO	
	C289	QEK51HM-475	4.7MF	50V	ELECTRO	
	C291	QETB1EM-476	47MF	25V	ELECTRO	
	C292	QETB1EM-476	47MF	25V	ELECTRO	
	C293	QCHB1EZ-223	0.022MF	25V	CERAMIC	
	C294	QCHB1EZ-223	0.022MF	25V	CERAMIC	
	C383	QCF21HP-103	0.01MF	50V	CERAMIC	A
	C383	QCF21HP-103	0.01MF	50V	CERAMIC	D
	C421	QER40JM-337E	330MF	6.3V	ELECTRO	
	C422	QCZ0205-155	1.5MF	25V	CERAMIC	
	C423	QCB81HK-101	100PF	50V	CERAMIC	
	C424	QCB81HK-101	100PF	50V	CERAMIC	
	C425	QER51EM-475G	4.7MF	25V	ELECTRO	
	C461	QER40JM-337E	330MF	6.3V	ELECTRO	
	C462	QCZ0205-155	1.5MF	25V	CERAMIC	
	C465	QER40JM-107E	100MF	6.3V	ELECTRO	
	C466	QCZ0205-155	1.5MF	25V	CERAMIC	
	C467	QCB81HK-101	100PF	50V	CERAMIC	
	C468	QCB81HK-221	220PF	50V	CERAMIC	
	C469	QCZ0205-155	1.5MF	25V	CERAMIC	
	C470	QCZ0205-155	1.5MF	25V	CERAMIC	
	C471	QER41HM-336E	33MF	50V	ELECTRO	
	C472	QCHB1EZ-223	0.022MF	25V	CERAMIC	
	C473	QCHB1EZ-223	0.022MF	25V	CERAMIC	

Δ : SAFETY PARTS

Resistors

Δ	ITEM	PART NUMBER	DESCRIPTION			AREA
	R211	QRD167J-104	100K	1/6W	CARBON	
	R212	QRD167J-104	100K	1/6W	CARBON	
	R213	QRD167J-563	56K	1/6W	CARBON	
	R214	QRD167J-563	56K	1/6W	CARBON	
	R215	QRD167J-105	1M	1/6W	CARBON	
	R216	QRD167J-105	1M	1/6W	CARBON	
	R217	QRD167J-563	56K	1/6W	CARBON	
	R218	QRD167J-563	56K	1/6W	CARBON	
	R219	QRD167J-102	1K	1/6W	CARBON	
	R220	QRD167J-102	1K	1/6W	CARBON	
	R221	QRD167J-105	1M	1/6W	CARBON	
	R222	QRD167J-105	1M	1/6W	CARBON	
	R223	QRD167J-103	10K	1/6W	CARBON	A
	R223	QRD167J-103	10K	1/6W	CARBON	B
Δ	R223	QRV144F-1002	10K	1/4W	M.FILM	C
Δ	R223	QRV144F-1002	10K	1/4W	M.FILM	D
Δ	R223	QRV144F-1002	10K	1/4W	M.FILM	E
	R224	QRD167J-103	10K	1/6W	CARBON	A
	R224	QRD167J-103	10K	1/6W	CARBON	B
Δ	R224	QRV144F-1002	10K	1/4W	M.FILM	C
Δ	R224	QRV144F-1002	10K	1/4W	M.FILM	D
Δ	R224	QRV144F-1002	10K	1/4W	M.FILM	E
	R225	QRD167J-103	10K	1/6W	CARBON	A
	R225	QRD167J-103	10K	1/6W	CARBON	B
Δ	R225	QRV144F-1002	10K	1/4W	M.FILM	C
Δ	R225	QRV144F-1002	10K	1/4W	M.FILM	D
Δ	R225	QRV144F-1002	10K	1/4W	M.FILM	E
	R226	QRD167J-103	10K	1/6W	CARBON	A
	R226	QRD167J-103	10K	1/6W	CARBON	B
Δ	R226	QRV144F-1002	10K	1/4W	M.FILM	C
Δ	R226	QRV144F-1002	10K	1/4W	M.FILM	D
Δ	R226	QRV144F-1002	10K	1/4W	M.FILM	E
	R227	QRD167J-103	10K	1/6W	CARBON	
	R228	QRD167J-103	10K	1/6W	CARBON	
	R229	QRD167J-753	75K	1/6W	CARBON	
	R230	QRD167J-683	68K	1/6W	CARBON	
	R232	QRD167J-105	1M	1/6W	CARBON	
	R233	QRD167J-103	10K	1/6W	CARBON	
	R234	QRD167J-332	3.3K	1/6W	CARBON	
	R235	QRD167J-103	10K	1/6W	CARBON	
	R236	QRD167J-103	10K	1/6W	CARBON	
	R237	QRD167J-105	1M	1/6W	CARBON	
	R238	QRD167J-105	1M	1/6W	CARBON	
	R239	QRD167J-103	10K	1/6W	CARBON	
	R240	QRD167J-103	10K	1/6W	CARBON	

Δ : SAFETY PARTS

Resistors

Δ	ITEM	PART NUMBER	DESCRIPTION			AREA
	R241	QRD167J-332	3.3K	1/6W	CARBON	
	R242	QRD167J-332	3.3K	1/6W	CARBON	
	R243	QRD167J-103	10K	1/6W	CARBON	
	R244	QRD167J-103	10K	1/6W	CARBON	
	R245	QRD167J-103	10K	1/6W	CARBON	
	R246	QRD167J-103	10K	1/6W	CARBON	
	R247	QRD167J-331	330	1/6W	CARBON	
	R251	QRD167J-333	33K	1/6W	CARBON	
	R252	QRD167J-104	100K	1/6W	CARBON	
Δ	R253	QRD14CJ-680S	68	1/4W	UNF. CARBON	A
Δ	R253	QRZ0077-680	68	1/4W	FUSIBLE	B
Δ	R253	QRZ0077-680	68	1/4W	FUSIBLE	C
Δ	R253	QRZ0077-680	68	1/4W	FUSIBLE	D
Δ	R253	QRZ0077-680	68	1/4W	FUSIBLE	E
	R254	QRD167J-562	5.6K	1/6W	CARBON	
	R255	QRD167J-100	10	1/6W	CARBON	
	R256	QRD167J-100	10	1/6W	CARBON	
	R257	QRD167J-182	1.8K	1/6W	CARBON	
	R259	QRD167J-562	5.6K	1/6W	CARBON	
	R261	QRD167J-104	100K	1/6W	CARBON	
	R262	QRD167J-104	100K	1/6W	CARBON	
	R263	QRD167J-105	1M	1/6W	CARBON	
	R264	QRD167J-105	1M	1/6W	CARBON	
	R265	QRD167J-104	100K	1/6W	CARBON	
	R266	QRD167J-104	100K	1/6W	CARBON	
	R267	QRD167J-103	10K	1/6W	CARBON	
	R268	QRD167J-103	10K	1/6W	CARBON	
	R269	QRD167J-331	330	1/6W	CARBON	
	R271	QRD167J-104	100K	1/6W	CARBON	
	R272	QRD167J-105	1M	1/6W	CARBON	
	R273	QRD167J-104	100K	1/6W	CARBON	
	R274	QRD167J-103	10K	1/6W	CARBON	
	R275	QRD167J-103	10K	1/6W	CARBON	
	R281	QRD167J-104	100K	1/6W	CARBON	
	R282	QRD167J-104	100K	1/6W	CARBON	
	R283	QRD167J-105	1M	1/6W	CARBON	
	R284	QRD167J-105	1M	1/6W	CARBON	
	R285	QRD167J-153	15K	1/6W	CARBON	
	R286	QRD167J-153	15K	1/6W	CARBON	
	R287	QRD167J-563	56K	1/6W	CARBON	
	R288	QRD167J-563	56K	1/6W	CARBON	
	R289	QRD167J-104	100K	1/6W	CARBON	
	R290	QRD167J-105	1M	1/6W	CARBON	
	R291	QRD167J-153	15K	1/6W	CARBON	
	R292	QRD167J-563	56K	1/6W	CARBON	
	R293	QRD167J-680	68	1/6W	CARBON	
	R294	QRD167J-680	68	1/6W	CARBON	
	R381	QRD167J-103	10K	1/6W	CARBON	
	R382	QRD167J-103	10K	1/6W	CARBON	
	R383	QRD167J-103	10K	1/6W	CARBON	
	R385	QRD167J-221	220	1/6W	CARBON	
	R387	QRD167J-221	220	1/6W	CARBON	
	R388	QRD167J-221	220	1/6W	CARBON	
	R418	QRD167J-471	470	1/6W	CARBON	
	R419	QRD167J-103	10K	1/6W	CARBON	
	R421	QRD167J-105	1M	1/6W	CARBON	
	R422	QRD167J-152	1.5K	1/6W	CARBON	
	R423	QRD167J-272	2.7K	1/6W	CARBON	
	R424	QRD167J-473	47K	1/6W	CARBON	
	R425	QRD167J-221	220	1/6W	CARBON	
	R426	QRD167J-473	47K	1/6W	CARBON	
	R427	QRD167J-223	22K	1/6W	CARBON	
	R428	QRD167J-103	10K	1/6W	CARBON	
	R461	QRD167J-100	10	1/6W	CARBON	
	R463	QRD167J-103	10K	1/6W	CARBON	
	R464	QRD167J-473	47K	1/6W	CARBON	
	R465	QRD167J-223	22K	1/6W	CARBON	
	R466	QRD167J-103	10K	1/6W	CARBON	
	R467	QRD167J-471	470	1/6W	CARBON	
	R468	QRD167J-103	10K	1/6W	CARBON	
	R471	QRD167J-104	100K	1/6W	CARBON	
	R472	QRD167J-221	220	1/6W	CARBON	A
	R472	QRD167J-221	220	1/6W	CARBON	B
	R472	QRD167J-221	220	1/6W	CARBON	C
	R472	QRD167J-471	470	1/6W	CARBON	D
	R472	QRD167J-221	220	1/6W	CARBON	E
	R473	QRD167J-273	27K	1/6W	CARBON	
	R475	QRD167J-113	11K	1/6W	CARBON	
	R476	QRD167J-113	11K	1/6W	CARBON	
	R477	QRD167J-512	5.1K	1/6W	CARBON	
	R478	QRD167J-512	5.1K	1/6W	CARBON	
	R481	QRD167J-221	220	1/6W	CARBON	
	R482	QRD167J-221	220	1/6W	CARBON	
	R483	QRD167J-221	220	1/6W	CARBON	
	R484	QRD167J-221	220	1/6W	CARBON	
	R491	QRD167J-103	10K	1/6W	CARBON	
	R492	QRD167J-103	10K	1/6W	CARBON	
	R493	QRD167J-103	10K	1/6W	CARBON	
	RA423	QRB049J-473	47K	1/10W	R.NETWORK	
	RA463	QRB079J-104	100K	1/10W	R.NETWORK	

Δ : SAFETY PARTS

Others

△	ITEM	PART NUMBER	DESCRIPTION	AREA
		EMW10153-003	CIRCUIT BOARD	
		E306805-039	SPACER	
		E307579-001	SHIELD COVER	
		E307704-001	FL.DISPLAY HOLDE	
	J381	QMS3L10-0A0	MINI JACK	
	J382	QMS3L10-0A0	MINI JACK	
	J383	QMS3L10-0A0	MINI JACK	
	S241	QST9101-E06	PUSH SWITCH(FRONT,REAR OUTSWITCH)	
	S401	ESP0001-018	TACT SWITCH(DIGITAL IN)	
	S402	ESP0001-018	TACT SWITCH(MC/MM)	
	S403	ESP0001-018	TACT SWITCH(SEA FLAT)	
	S404	ESP0001-018	TACT SWITCH(SEA REVERSE)	
	S405	ESP0001-018	TACT SWITCH(CSRP MODE)	
	S406	ESP0001-018	TACT SWITCH(CSRP)	
	S407	ESP0001-018	TACT SWITCH(SEA LEVEL -)	
	S408	ESP0001-018	TACT SWITCH(SEA LEVEL +)	
	S409	ESP0001-018	TACT SWITCH(CD)	
	S410	ESP0001-018	TACT SWITCH(DAT)	
	S411	ESP0001-018	TACT SWITCH(CHARA -)	
	S412	ESP0001-018	TACT SWITCH(CHARA +)	
	S413	ESP0001-018	TACT SWITCH(BAL L)	
	S414	ESP0001-018	TACT SWITCH(BAL R)	
	S415	ESP0001-018	TACT SWITCH(MODE 2)	
	S416	ESP0001-018	TACT SWITCH(CENTER -)	
	S417	ESP0001-018	TACT SWITCH(CENTER +)	
	S421	ESP0001-018	TACT SWITCH(1)	
	S422	ESP0001-018	TACT SWITCH(2)	
	S423	ESP0001-018	TACT SWITCH(3)	
	S424	ESP0001-018	TACT SWITCH(4)	
	S425	ESP0001-018	TACT SWITCH(5)	
	S426	ESP0001-018	TACT SWITCH(6)	
	S427	ESP0001-018	TACT SWITCH(7)	
	S428	ESP0001-018	TACT SWITCH(8)	
	S429	ESP0001-018	TACT SWITCH(9)	
	S430	ESP0001-018	TACT SWITCH(10)	
	S431	ESP0001-018	TACT SWITCH(+10)	
	S432	ESP0001-018	TACT SWITCH(MEMO)	
	S433	ESP0001-018	TACT SWITCH(AUTO MEMO)	
	S434	ESP0001-018	TACT SWITCH(FM MODE MUTE)	
	S435	ESP0001-018	TACT SWITCH(TUNE DOWN)	
	S436	ESP0001-018	TACT SWITCH(TUNE UP)	
	S437	ESP0001-018	TACT SWITCH(AM)	
	S438	ESP0001-018	TACT SWITCH(FM)	
	S451	ESP0001-018	TACT SWITCH(CSRP TEST)	
	S452	ESP0001-018	TACT SWITCH(CSRP MEMO)	
	S453	ESP0001-018	TACT SWITCH(CSRP MON)	
	S454	ESP0001-018	TACT SWITCH(SEA)	
	S455	ESP0001-018	TACT SWITCH(SEA REC)	
	S456	ESP0001-018	TACT SWITCH(SEA PRESET)	
	S457	ESP0001-018	TACT SWITCH(SEA MEMO)	
	S458	ESP0001-018	TACT SWITCH(SEA FREQ -)	
	S459	ESP0001-018	TACT SWITCH(SEA FREQ +)	
	S460	ESP0001-018	TACT SWITCH(VDP)	
	S461	ESP0001-018	TACT SWITCH(VCR 1)	
	S462	ESP0001-018	TACT SWITCH(VCR 2)	
	S463	ESP0001-018	TACT SWITCH(PHONO)	
	S464	ESP0001-018	TACT SWITCH(TAPE 1)	
	S465	ESP0001-018	TACT SWITCH(TAPE 2)	
	S468	ESP0001-018	TACT SWITCH(S.SELECT)	
	S469	ESP0001-018	TACT SWITCH(LOUD)	
	S470	ESP0001-018	TACT SWITCH(CHARA)	
	S471	ESP0001-018	TACT SWITCH(ENTER)	
	S472	ESP0001-018	TACT SWITCH(DAP/DOLBY)	
	S473	ESP0001-018	TACT SWITCH(ON SCREEN)	
	S474	ESP0001-018	TACT SWITCH(REAR -)	
	S475	ESP0001-018	TACT SWITCH(REAR +)	
	S476	ESP0001-018	TACT SWITCH(PRO LOGIC)	
	S477	ESP0001-018	TACT SWITCH(SCH LOGIC)	
	S478	ESP0001-018	TACT SWITCH(THEATER)	
	S479	ESP0001-018	TACT SWITCH(TEST)	
	S480	ESP0001-018	TACT SWITCH(DAP MODE)	
	S481	ESP0001-018	TACT SWITCH(DAP REC)	
	S482	ESP0001-018	TACT SWITCH(DELAY -)	
	S483	ESP0001-018	TACT SWITCH(DELAY +)	
	S494	ESP0001-018	TACT SWITCH(LIVE)	
	S496	ESP0001-018	TACT SWITCH(SIZE)	
	S497	ESP0001-018	TACT SWITCH(WALL)	
	S498	ESP0001-018	TACT SWITCH(DAP -)	
	S499	ESP0001-018	TACT SWITCH(DAP +)	
	EP210	E70225-001	EARTH PLATE	
	FL461	ELU0001-126	FL TUBE	
	PA241	EMV5109-003A	PLUG ASSY (3PIN)	
	PA243	EMV5142-904	PLUG ASSY (4PIN)	
	PA246	EMV5142-903	PLUG ASSY (3PIN)	
	PA401	EMV7123-021	CONNECTOR (21PIN)	
	PA402	EMV7123-019	CONNECTOR (19PIN)	
	PA403	EMV7123-020	CONNECTOR (20PIN)	
	PA411	EMV7124-008	CONNECTOR (8PIN)	
	PA412	EMV7124-008	CONNECTOR (8PIN)	
	PA413	EMV7124-006	CONNECTOR (6PIN)	

△ : SAFETY PARTS

Others

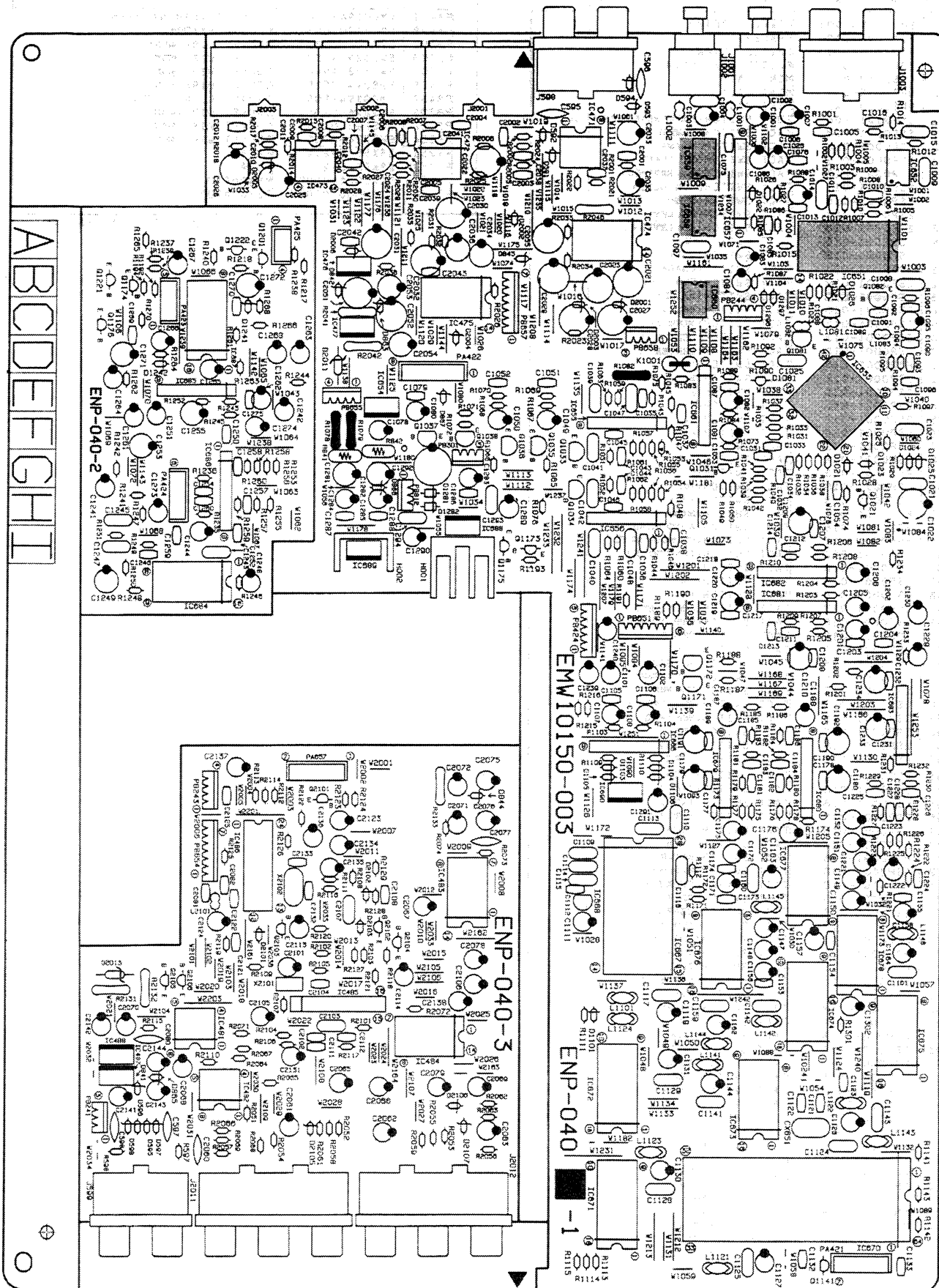
△	ITEM	PART NUMBER	DESCRIPTION	AREA
	PA442	VHC0194-P06	CONNECT TERMINAL (6PIN)	
	PA658	EMV5109-003A	PLUG ASSY (7PIN)	
	PB302	EWS294-0525	SOCKET WIRE (4PIN)	
	PB303	EWS329-A930	SOCKET WIRE (8PIN)	
	PB305	EWS328-A940	SOCKET WIRE (8PIN)	
	PB425	EWS294-0525	SOCKET WIRE (4PIN)	
	PB462	VHC0194-S05	FEMALE CONNECTOR (5PIN)	
	PB701	EWS296-0135	SOCKET WIRE (6PIN)	
	PB702	EWS293-0135	SOCKET WIRE (3PIN)	
	PB834	EWS324-A930	SOCKET WIRE (4PIN)	
	RY251	ESK5D12-214	RELAY	
	RY252	ESK5D12-214	RELAY	
	XT421	ECX0001-000KS	RESONATOR	
	XT461	ECX0060-000EM	RESONATOR	

△ : SAFETY PARTS

■ ENP-040 □ Video Selector & DAP PC Board Ass'y

Note : ENP-040□ varies according to the areas employed. See note (1) when placing an order.

※ The shaded parts install the foil side of P.C.B (ENP-040).



Note (1)

PC Board Ass'y	Designated Areas
ENP-040 A	the U.S.A.
ENP-040 B	Canada
ENP-040 C	Universal Type (with PAL)
ENP-040 D	Continental Europe (with PAL) Germany (with PAL) the U.K. (with PAL)
ENP-040 E	Australia (with PAL)

Transistors

ITEM	PART NUMBER	DESCRIPTION	AREA
Q1021	2SA933(R,S)	SILICON ROHM	
Q1031	DTA114YS	SILICON ROHM	
Q1033	2SC3068	SILICON SANYO	
Q1034	2SC3068	SILICON SANYO	
Q1035	2SC3068	SILICON SANYO	
Q1036	2SC3068	SILICON SANYO	
Q1037	2SC3068	SILICON SANYO	
Q1038	2SC3068	SILICON SANYO	
Q1081	2SD1302(S,T)	SILICON MATSUSHITA	
Q1082	2SC555(B,C)	SILICON HITACHI	
Q1141	DTA144ES	SILICON ROHM	
Q1171	2SC3068	SILICON SANYO	
Q1172	2SC3068	SILICON SANYO	
Q1173	DTA114YS	SILICON ROHM	
Q1174	DTA114YS	SILICON ROHM	
Q1175	DTA144ES	SILICON ROHM	
Q1176	DTA144ES	SILICON ROHM	
Q1201	2SC3068	SILICON SANYO	
Q1221	2SC3068	SILICON SANYO	
Q1222	2SC3068	SILICON SANYO	
Q2101	2SC458(C,D)	SILICON HITACHI	
Q2102	2SC458(C,D)	SILICON HITACHI	
Q2103	2SC458(C,D)	SILICON HITACHI	
Q2104	2SC458(C,D)	SILICON HITACHI	
Q2105	DTA144ES	SILICON ROHM	
Q2106	DTA144ES	SILICON ROHM	

△ : SAFETY PARTS

I.C.s

ITEM	PART NUMBER	DESCRIPTION	AREA
IC471	MC14577BP	I.C. NIHON MOTORRR	
IC472	MC14577BP	I.C. NIHON MOTORRR	
IC473	MC14577BP	I.C. NIHON MOTORRR	
IC474	LA7951	I.C. SANYO	
IC475	LA7951	I.C. SANYO	
IC476	NJM78M05FD	I.C. DAINICHI	
IC477	NJM79M05FA	I.C. DAINICHI	
IC481	MC14577BP	I.C. NIHON MOTORRR	
IC482	MC14577BP	I.C. NIHON MOTORRR	
IC483	LA7951	I.C. SANYO	
IC484	BU4066B	I.C. ROHM	
IC485	NJM2229S	I.C. DAINICHI	
IC486	UPD6452CS-507	I.C. NEC	
IC487	NJM78M05FD	I.C. DAINICHI	
IC488	NJM79M05FA	I.C. DAINICHI	
IC651	TC9245N	I.C. TOSHIBA	
IC654	LM2940CT-5.0	I.C. ASAHIGARASU	
IC655	VC4580LD	I.C. DAINICHI	
IC656	VC4580LD	I.C. DAINICHI	
IC657	TC5081AP	I.C. TOSHIBA	
IC661	VC4580LD	I.C. DAINICHI	
IC666	VC4580LD	I.C. DAINICHI	
IC667	CS5339-KP	I.C. ASAHI KASEI	
IC668	MN1281(P,Q)	I.C. MATSUSHITA	
IC670	LC83010N	I.C. SANYO	
IC671	LM33464G-12	I.C. SANYO	
IC672	LM33464G-12	I.C. SANYO	
IC673	SM5818AP	I.C. KANEMATSU	
IC674	SM5840EP	I.C. KANEMATSU	
IC675	SM5807EP	I.C. KANEMATSU	
IC676	PCM67P	I.C. NIHONBARBURAUN	
IC677	PCM67P	I.C. NIHONBARBURAUN	
IC678	UPD6376CX	I.C. NEC	
IC679	VC4580LD	I.C. DAINICHI	
IC680	VC4580LD	I.C. DAINICHI	
IC681	VC4580LD	I.C. DAINICHI	
IC682	VC4580LD	I.C. DAINICHI	
IC683	VC4580LD	I.C. DAINICHI	
IC684	LA2730	I.C. SANYO	
IC685	VC4580LD	I.C. DAINICHI	

△ : SAFETY PARTS

I.C.s

ITEM	PART NUMBER	DESCRIPTION	AREA
IC686	VC4580LD	I.C. DAINICHI	
IC687	UPD4053BC	I.C. NEC	
IC688	LM2940CT-5.0	I.C. ASAHIGARASU	
IC689	NJM78M05FD	I.C. DAINICHI	
IC690	NJM79M05FA	I.C. DAINICHI	

△ : SAFETY PARTS

I.C.s

※ The following parts are shaded I.C.s.

ITEM	PART NUMBER	DESCRIPTION	AREA
IC652	TC74HC04AFT1	I.C. MATSUSHITA	
IC653	JCE4302A	I.C. MATSUSHITA	
IC658	TC74HC163AFT1	I.C. MATSUSHITA	
IC659	TC74HC163AFT1	I.C. MATSUSHITA	
IC660	TC74HC04AFT1	I.C. MATSUSHITA	

△ : SAFETY PARTS

Diodes

ITEM	PART NUMBER	DESCRIPTION	AREA
D591	MTZ13JC	ZENER ROHM	
D592	MTZ13JC	ZENER ROHM	
D593	MTZ13JC	ZENER ROHM	
D594	MTZ13JC	ZENER ROHM	
D595	MTZ13JC	ZENER ROHM	
D596	MTZ13JC	ZENER ROHM	
D597	MTZ13JC	ZENER ROHM	
D598	MTZ13JC	ZENER ROHM	
D841	MTZ16JC	ZENER ROHM	C
D841	MTZ16JC	ZENER ROHM	D
D841	MTZ16JC	ZENER ROHM	E
D842	MTZ16JC	ZENER ROHM	C
D842	MTZ16JC	ZENER ROHM	D
D842	MTZ16JC	ZENER ROHM	E
D843	MTZ16JC	ZENER ROHM	C
D843	MTZ16JC	ZENER ROHM	D
D843	MTZ16JC	ZENER ROHM	E
D844	MTZ16JC	ZENER ROHM	C
D844	MTZ16JC	ZENER ROHM	D
D844	MTZ16JC	ZENER ROHM	E
D865	MTZ15JC	ZENER ROHM	C
D865	MTZ15JC	ZENER ROHM	D
D865	MTZ15JC	ZENER ROHM	E
D866	MTZ18JC	ZENER ROHM	C
D866	MTZ18JC	ZENER ROHM	D
D866	MTZ18JC	ZENER ROHM	E
D867	MTZ5.1JC	ZENER ROHM	C
D867	MTZ5.1JC	ZENER ROHM	D
D867	MTZ5.1JC	ZENER ROHM	E
D1021	1SS133	SILICON ROHM	
D1022	1SS133	SILICON ROHM	
D1023	1SS133	SILICON ROHM	
D1024	MA700	ZENER MATSUSHITA	
D1025	MTZ5.1JC	ZENER ROHM	
D1026	1SS133	SILICON ROHM	
D1081	FC52M(5,6)	VARICAP FUJITSU	
D1101	1SS133	SILICON ROHM	
D1103	MTZ4.7JC	ZENER ROHM	
D1104	MTZ4.7JC	ZENER ROHM	
D1105	MTZ4.7JC	ZENER ROHM	
D1106	MTZ4.7JC	ZENER ROHM	
D1241	MTZ5.1JB	ZENER ROHM	
D1242	MTZ5.1JB	ZENER ROHM	
D1281	1SR139-200	SILICON ROHM	
D1282	1SR139-200	SILICON ROHM	
D1296	1SS133	SILICON ROHM	
D1297	1SS133	SILICON ROHM	
D2011	RD2.7FB2	ZENER NEC	A
D2013	RD2.7FB2	ZENER NEC	B
D2013	RD2.7FB2	ZENER NEC	C
D2013	RD5.1FB3	ZENER NEC	D
D2013	RD5.1FB3	ZENER NEC	E
D2021	MTZ5.1JC	ZENER ROHM	
D2022	MTZ5.1JC	ZENER ROHM	
D2023	MTZ5.1JC	ZENER ROHM	
D2024	MTZ5.1JC	ZENER ROHM	
D2025	MTZ5.1JC	ZENER ROHM	
D2026	MTZ5.1JC	ZENER ROHM	
D2027	MTZ5.1JC	ZENER ROHM	
D2028	MTZ5.1JC	ZENER ROHM	
D2029	MTZ5.1JC	ZENER ROHM	
D2030	MTZ5.1JC	ZENER ROHM	
D2031	MTZ5.1JC	ZENER ROHM	
D2032	MTZ5.1JC	ZENER ROHM	
D2101	1SS133	SILICON ROHM	
D2102	1SS133	SILICON ROHM	
D2103	1SS133	SILICON ROHM	
D2105	MTZ12JC	ZENER ROHM	
D2106	MTZ12JC	ZENER ROHM	
D2107	MTZ12JC	ZENER ROHM	

△ : SAFETY PARTS

Capacitors

Δ	ITEM	PART NUMBER	DESCRIPTION				AREA
	C595	QCS21HJ-221	220PF	50V	CERAMIC		A
	C595	QCS21HJ-331	330PF	50V	CERAMIC		D
	C596	QCS21HJ-221	220PF	50V	CERAMIC		A
	C596	QCS21HJ-331	330PF	50V	CERAMIC		D
	C597	QCS21HJ-331	330PF	50V	CERAMIC		A
	C597	QCS21HJ-331	330PF	50V	CERAMIC		D
	C598	QCS21HJ-331	330PF	50V	CERAMIC		A
	C598	QCS21HJ-331	330PF	50V	CERAMIC		D
	C1001	QETB1AM-107	100MF	10V	ELECTRO		
	C1002	QCZ0205-155	1.5MF	25V	CERAMIC		
	C1003	QETB1AM-107	100MF	10V	ELECTRO		
	C1004	QCZ0205-155	1.5MF	25V	CERAMIC		
	C1005	QCB1HK-121	120PF	50V	CERAMIC		
	C1006	QCVB1CM-103	0.01MF	16V	CERAMIC		
	C1007	QETB1EM-226	22MF	25V	ELECTRO		
	C1008	QCZ0205-155	1.5MF	25V	CERAMIC		
	C1009	QCZ0205-155	1.5MF	25V	CERAMIC		
	C1010	QCB1HK-221	220PF	50V	CERAMIC		
	C1011	QFVB1HJ-473N	0.047MF	50V	T.FILM		
	C1012	QCB1HK-121	120PF	50V	CERAMIC		
	C1013	QCB1HK-121	120PF	50V	CERAMIC		
	C1014	QETB1AM-107	100MF	10V	ELECTRO		
	C1015	QCZ0205-155	1.5MF	25V	CERAMIC		
	C1016	QCB1HK-221	220PF	50V	CERAMIC		
	C1021	QCZ0205-155	1.5MF	25V	CERAMIC		
	C1022	QETB0JM-477	470MF	6.3V	ELECTRO		
	C1023	QCZ0205-155	1.5MF	25V	CERAMIC		
	C1025	QCZ0205-155	1.5MF	25V	CERAMIC		
	C1026	QEK51HM-474G	0.47MF	50V	ELECTRO		
	C1031	QCB1HK-271	270PF	50V	CERAMIC		
	C1032	QCB1HK-271	270PF	50V	CERAMIC		
	C1033	QCB1HK-271	270PF	50V	CERAMIC		
	C1034	QCB1HK-271	270PF	50V	CERAMIC		
	C1035	QCB1HK-820	82PF	50V	CERAMIC		
	C1036	QCB1HK-820	82PF	50V	CERAMIC		
	C1037	QCB1HK-820	82PF	50V	CERAMIC		
	C1038	QCB1HK-820	82PF	50V	CERAMIC		
	C1039	QFN81HJ-473	0.047MF	50V	MYLAR		
	C1040	QFN81HJ-473	0.047MF	50V	MYLAR		
	C1041	QFN81HJ-473	0.047MF	50V	MYLAR		
	C1042	QFN81HJ-473	0.047MF	50V	MYLAR		
	C1043	QCVB1CM-392	3900PF	16V	CERAMIC		
	C1044	QCVB1CM-392	3900PF	16V	CERAMIC		
	C1045	QCB1HK-331	330PF	50V	CERAMIC		
	C1046	QCB1HK-331	330PF	50V	CERAMIC		
	C1047	QFN81HJ-473	0.047MF	50V	MYLAR		
	C1048	QFN81HJ-473	0.047MF	50V	MYLAR		
	C1049	QETB1EM-226	22MF	25V	ELECTRO		
	C1050	QETB1EM-226	22MF	25V	ELECTRO		
	C1053	QCVB1CM-103	0.01MF	16V	CERAMIC		
	C1054	QCVB1CM-103	0.01MF	16V	CERAMIC		
	C1078	QEH1EM-476	47MF	25V	ELECTRO		
	C1079	QCHB1EZ-223	0.022MF	25V	CERAMIC		
	C1080	QEH1AM-107	100MF	10V	ELECTRO		
	C1081	QER51CM-476	47MF	16V	ELECTRO		
	C1082	QEK51EM-106	10MF	25V	ELECTRO		
	C1083	QEK51EM-106	10MF	25V	ELECTRO		
	C1084	QEK51EM-106	10MF	25V	ELECTRO		
	C1085	QCB1HK-101	100PF	50V	CERAMIC		
	C1086	QETB1AM-107	100MF	10V	ELECTRO		
	C1087	QCVB1CM-103	0.01MF	16V	CERAMIC		
	C1088	QCB1HK-221	220PF	50V	CERAMIC		
	C1089	QCB1HK-102	1000PF	50V	CERAMIC		
	C1090	QCSB1HJ-150	15PF	50V	CERAMIC		
	C1091	QCSB1HJ-560	56PF	50V	CERAMIC		
	C1092	QCSB1HJ-390	39PF	50V	CERAMIC		
	C1093	QCB1HK-102	1000PF	50V	CERAMIC		
	C1094	QCHB1EZ-223	0.022MF	25V	CERAMIC		
	C1095	QETB1AM-476	47MF	10V	ELECTRO		
	C1096	QCHB1EZ-223	0.022MF	25V	CERAMIC		
	C1097	QCZ0205-155	1.5MF	25V	CERAMIC		
	C1101	QETB1EM-106	10MF	25V	ELECTRO		
	C1102	QETB1EM-106	10MF	25V	ELECTRO		
	C1105	QCHB1EZ-223	0.022MF	25V	CERAMIC		
	C1106	QCHB1EZ-223	0.022MF	25V	CERAMIC		
	C1107	QETB1EM-476	47MF	25V	ELECTRO		
	C1108	QETB1EM-476	47MF	25V	ELECTRO		
	C1109	QFVB1HJ-103N	0.01MF	50V	T.FILM		
	C1110	QFVB1HJ-103N	0.01MF	50V	T.FILM		
	C1111	QETB1EM-106	10MF	25V	ELECTRO		
	C1112	QCVB1CM-103	0.01MF	16V	CERAMIC		
	C1113	QCZ0205-155	1.5MF	25V	CERAMIC		
	C1114	QCZ0205-155	1.5MF	25V	CERAMIC		
	C1115	QCZ0205-155	1.5MF	25V	CERAMIC		
	C1116	QCZ0205-155	1.5MF	25V	CERAMIC		
	C1117	QCZ0205-155	1.5MF	25V	CERAMIC		
	C1119	QETB1AM-107	100MF	10V	ELECTRO		
	C1121	QCSB1HJ-180	18PF	50V	CERAMIC		
	C1122	QCSB1HJ-180	18PF	50V	CERAMIC		
	C1123	QCVB1CM-103	0.01MF	16V	CERAMIC		

Δ : SAFETY PARTS

Capacitors

Δ	ITEM	PART NUMBER	DESCRIPTION				AREA
	C1124	QCZ0205-155	1.5MF	25V	CERAMIC		
	C1125	QCZ0205-155	1.5MF	25V	CERAMIC		
	C1126	QETB1AM-107	100MF	10V	ELECTRO		
	C1127	QETB1AM-107	100MF	10V	ELECTRO		
	C1128	QCZ0205-155	1.5MF	25V	CERAMIC		
	C1129	QCZ0205-155	1.5MF	25V	CERAMIC		
	C1130	QETB1AM-107	100MF	10V	ELECTRO		
	C1131	QEK51CM-107	100MF	16V	ELECTRO		
	C1132	QCB1HK-101	100PF	50V	CERAMIC		
	C1133	QCB1HK-101	100PF	50V	CERAMIC		
	C1141	QCZ0205-155	1.5MF	25V	CERAMIC		
	C1142	QCZ0205-155	1.5MF	25V	CERAMIC		
	C1143	QCZ0205-155	1.5MF	25V	CERAMIC		
	C1144	QEK51CM-107	100MF	16V	ELECTRO		
	C1145	QEK51CM-107	100MF	16V	ELECTRO		
	C1147	QEK60JM-476	47MF	6.3V	ELECTRO		
	C1148	QEK60JM-476	47MF	6.3V	ELECTRO		
	C1149	QEK60JM-476	47MF	6.3V	ELECTRO		
	C1150	QEK60JM-476	47MF	6.3V	ELECTRO		
	C1151	QETB1AM-476	47MF	10V	ELECTRO		
	C1152	QETB1AM-476	47MF	10V	ELECTRO		
	C1153	QCVB1CM-103	0.01MF	16V	CERAMIC		
	C1154	QCVB1CM-103	0.01MF	16V	CERAMIC		
	C1155	QCVB1CM-103	0.01MF	16V	CERAMIC		
	C1156	QEK51CM-107	100MF	16V	ELECTRO		
	C1157	QETB1AM-107	100MF	10V	ELECTRO		
	C1158	QETB1AM-107	100MF	10V	ELECTRO		
	C1159	QCZ0205-155	1.5MF	25V	CERAMIC		
	C1160	QCZ0205-155	1.5MF	25V	CERAMIC		
	C1161	QCZ0205-155	1.5MF	25V	CERAMIC		
	C1162	QETB1AM-107	100MF	10V	ELECTRO		
	C1163	QEK51CM-107	100MF	16V	ELECTRO		
	C1164	QETB1AM-107	100MF	10V	ELECTRO		
	C1171	QEK51EM-106	10MF	25V	ELECTRO		
	C1172	QEK51EM-106	10MF	25V	ELECTRO		
	C1173	QCVB1CM-103	0.01MF	16V	CERAMIC		
	C1174	QCVB1CM-103	0.01MF	16V	CERAMIC		
	C1175	QEK51EM-106	10MF	25V	ELECTRO		
	C1176	QEK51EM-106	10MF	25V	ELECTRO		
	C1177	QCVB1CM-103	0.01MF	16V	CERAMIC		
	C1178	QCVB1CM-103	0.01MF	16V	CERAMIC		
	C1179	QETB1EM-107	100MF	25V	ELECTRO		
	C1180	QETB1EM-107	100MF	25V	ELECTRO		
	C1181	QCVB1CM-682	6800PF	16V	CERAMIC		
	C1182	QCVB1CM-682	6800PF	16V	CERAMIC		
	C1183	QCVB1CM-822	8200PF	16V	CERAMIC		
	C1184	QCVB1CM-822	8200PF	16V	CERAMIC		
	C1185	QCB1HK-101	100PF	50V	CERAMIC		
	C1186	QCB1HK-101	100PF	50V	CERAMIC		
	C1187	QEK51EM-106	10MF	25V	ELECTRO		
	C1188	QEK51EM-106	10MF	25V	ELECTRO		
	C1189	QCVB1CM-103	0.01MF	16V	CERAMIC		
	C1190	QCVB1CM-103	0.01MF	16V	CERAMIC		
	C1191	QETB1EM-107	100MF	25V	ELECTRO		
	C1192	QETB1EM-107	100MF	25V	ELECTRO		
	C1201	QETB1EM-106	10MF	25V	ELECTRO		
	C1202	QETB1EM-106	10MF	25V	ELECTRO		
	C1203	QCVB1CM-103	0.01MF	16V	CERAMIC		
	C1204	QCVB1CM-103	0.01MF	16V	CERAMIC		
	C1205	QETB1EM-106	10MF	25V	ELECTRO		
	C1206	QETB1EM-106	10MF	25V	ELECTRO		
	C1207	QCVB1CM-103	0.01MF	16V	CERAMIC		
	C1208	QCVB1CM-103	0.01MF	16V	CERAMIC		
	C1209	QETB1EM-107	100MF	25V	ELECTRO		
	C1210	QETB1EM-107	100MF	25V	ELECTRO		
	C1211	QCVB1CM-103	0.01MF	16V	CERAMIC		
	C1212	QCVB1CM-103	0.01MF	16V	CERAMIC		
	C1213	QCVB1CM-222	2200PF	16V	CERAMIC		
	C1214	QCVB1CM-222	2200PF	16V	CERAMIC		
	C1217	QCVB1CM-103	0.01MF	16V	CERAMIC		
	C1218	QCVB1CM-103	0.01MF	16V	CERAMIC		
	C1219	QEK51EM-476	47MF	25V	ELECTRO		
	C1220	QEK51EM-476	47MF	25V	ELECTRO		
	C1221	QETB1EM-106	10MF	25V	ELECTRO		
	C1222	QETB1EM-106	10MF	25V	ELECTRO		
	C1223	QCVB1CM-332	3300PF	16V	CERAMIC		
	C1224	QCVB1CM-332	3300PF	16V	CERAMIC		
	C1225	QCVB1CM-222	2200PF	16V	CERAMIC		
	C1226	QCVB1CM-222	2200PF	16V	CERAMIC		
	C1227	QCVB1CM-122	1200PF	16V	CERAMIC		
	C1228	QCVB1CM-122	1200PF	16V	CERAMIC		
	C1229	QETB1HM-105	1MF	50V	ELECTRO		
	C1230	QETB1HM-105	1MF	50V	ELECTRO		
	C1231	QCVB1CM-103	0.01MF	16V	CERAMIC		
	C1232	QCVB1CM-103	0.01MF	16V	CERAMIC		
	C1233	QETB1EM-107	100MF	25V	ELECTRO		
	C1234	QETB1EM-107	100MF	25V	ELECTRO		
	C1239	QEK51EM-106	10MF	25V	ELECTRO		
	C1240	QEK51EM-106	10MF	25V	ELECTRO		
	C1241	QETB1HM-105	1MF	50V	ELECTRO		

Δ : SAFETY PARTS

Capacitors

Δ	ITEM	PART NUMBER	DESCRIPTION			AREA
	C1242	QETB1HM-105	1MF	50V	ELECTRO	
	C1243	QFN81HJ-104	0.1MF	50V	MYLAR	
	C1244	QEB51HM-334	0.33MF	50V	LLC ELECTRO	
	C1245	QFN81HJ-333	0.033MF	50V	MYLAR	
	C1246	QCB1CM-472	4700PF	16V	CERAMIC	
	C1247	QFN81HJ-273	0.027MF	50V	MYLAR	
	C1248	QETB1EM-226	22MF	25V	ELECTRO	
	C1249	QETB1EM-107	100MF	25V	ELECTRO	
	C1250	QCB1CM-562	5600PF	16V	CERAMIC	
	C1251	QETB1HM-105	1MF	50V	ELECTRO	
	C1252	QCVB1CM-103	0.01MF	16V	CERAMIC	
	C1253	QETB1EM-107	100MF	25V	ELECTRO	
	C1254	QCVB1CM-103	0.01MF	16V	CERAMIC	
	C1255	QETB1EM-107	100MF	25V	ELECTRO	
	C1257	QCSB1HJ-470	47PF	50V	CERAMIC	
	C1258	QCSB1HJ-470	47PF	50V	CERAMIC	
	C1259	QCVB1CM-103	0.01MF	16V	CERAMIC	
	C1260	QCVB1CM-103	0.01MF	16V	CERAMIC	
	C1261	QETB1EM-476	47MF	25V	ELECTRO	
	C1262	QETB1EM-476	47MF	25V	ELECTRO	
	C1263	QETB1EM-226	22MF	25V	ELECTRO	
	C1264	QETB1EM-226	22MF	25V	ELECTRO	
	C1265	QETB1EM-226	22MF	25V	ELECTRO	
	C1266	QETB1EM-226	22MF	25V	ELECTRO	
	C1267	QETB1EM-226	22MF	25V	ELECTRO	
	C1268	QETB1EM-226	22MF	25V	ELECTRO	
	C1269	QCVB1CM-103	0.01MF	16V	CERAMIC	
	C1270	QCVB1CM-103	0.01MF	16V	CERAMIC	
	C1271	QETB1EM-107	100MF	25V	ELECTRO	
	C1272	QETB1EM-107	100MF	25V	ELECTRO	
	C1273	QETB1HM-105	1MF	50V	ELECTRO	
	C1274	QETB1EM-106	10MF	25V	ELECTRO	
	C1275	QCSB1HJ-470	47PF	50V	CERAMIC	
	C1281	QETB1CM-107	100MF	16V	ELECTRO	
	C1282	QETB1CM-107	100MF	16V	ELECTRO	
	C1283	QETB1EM-476	47MF	25V	ELECTRO	
	C1284	QETB1EM-476	47MF	25V	ELECTRO	
	C1285	QETB1EM-476	47MF	25V	ELECTRO	
	C1286	QCHB1EZ-223	0.022MF	25V	CERAMIC	
	C1287	QCHB1EZ-223	0.022MF	25V	CERAMIC	
	C1288	QCHB1EZ-223	0.022MF	25V	CERAMIC	
	C1289	QETB1AM-107	100MF	10V	ELECTRO	
	C1290	QCHB1AM-107	100MF	10V	ELECTRO	
	C1291	QCHB1AM-107	100MF	10V	ELECTRO	
	C1292	EET1604-108M	1000MF		ELECTRO	
	C1293	QFV81HJ-104	0.1MF	50V	T.FILM	
	C1294	QFV81HJ-104	0.1MF	50V	T.FILM	
	C2003	QCB1HK-101	100PF	50V	CERAMIC	
	C2004	QCB1HK-101	100PF	50V	CERAMIC	
	C2007	QCB1HK-101	100PF	50V	CERAMIC	
	C2008	QCB1HK-101	100PF	50V	CERAMIC	
	C2011	QCB1HK-101	100PF	50V	CERAMIC	
	C2012	QCB1HK-101	100PF	50V	CERAMIC	
	C2021	QETB1CM-107	100MF	16V	ELECTRO	
	C2022	QETB1CM-107	100MF	16V	ELECTRO	
	C2023	QETB1CM-107	100MF	16V	ELECTRO	
	C2024	QETB1CM-107	100MF	16V	ELECTRO	
	C2025	QETB1CM-107	100MF	16V	ELECTRO	
	C2026	QETB1CM-107	100MF	16V	ELECTRO	
	C2027	QETB1CM-107	100MF	16V	ELECTRO	
	C2028	QETB1CM-107	100MF	16V	ELECTRO	
	C2029	QETB1CM-107	100MF	16V	ELECTRO	
	C2030	QETB1CM-107	100MF	16V	ELECTRO	
	C2031	QCHB1CM-107	100MF	16V	ELECTRO	
	C2032	QETB1CM-107	100MF	16V	ELECTRO	
	C2033	QETB1CM-476	47MF	16V	ELECTRO	
	C2034	QETB1CM-476	47MF	16V	ELECTRO	
	C2035	QETB1HM-475	4.7MF	50V	ELECTRO	
	C2036	QETB1HM-475	4.7MF	50V	ELECTRO	
	C2037	QCHB1EZ-223	0.022MF	25V	CERAMIC	
	C2038	QCHB1EZ-223	0.022MF	25V	CERAMIC	
	C2039	QCHB1EZ-223	0.022MF	25V	CERAMIC	
	C2040	QCHB1EZ-223	0.022MF	25V	CERAMIC	
	C2041	QCHB1EZ-223	0.022MF	25V	CERAMIC	
	C2042	QCHB1EZ-223	0.022MF	25V	CERAMIC	
	C2043	QCVB1CM-103	0.01MF	16V	CERAMIC	
	C2051	QCHB1CM-476	47MF	16V	ELECTRO	
	C2052	QCHB1CM-476	47MF	16V	ELECTRO	
	C2053	QCHB0JH-227	220MF	6.3V	ELECTRO	
	C2054	QCHB0JH-227	220MF	6.3V	ELECTRO	
	C2055	QETB1CM-477	470MF	16V	ELECTRO	
	C2061	QETB1HM-475	4.7MF	50V	ELECTRO	
	C2062	QETB1HM-475	4.7MF	50V	ELECTRO	
	C2063	QETB1HM-475	4.7MF	50V	ELECTRO	
	C2065	QETB1CM-107	100MF	16V	ELECTRO	
	C2066	QETB1CM-107	100MF	16V	ELECTRO	
	C2067	QETB1CM-107	100MF	16V	ELECTRO	
	C2068	QETB1AM-107	100MF	10V	ELECTRO	
	C2069	QETB1AM-107	100MF	10V	ELECTRO	
	C2070	QCHB1AM-107	100MF	10V	ELECTRO	

Δ : SAFETY PARTS

Capacitors

Δ	ITEM	PART NUMBER	DESCRIPTION			AREA
	C2071	QETB1CM-476	47MF	16V	ELECTRO	
	C2072	QETB1HM-475	4.7MF	50V	ELECTRO	
	C2075	QETB1CM-227	220MF	16V	ELECTRO	
	C2076	QETB1CM-227	220MF	16V	ELECTRO	
	C2077	QCF21HP-223	0.022MF	50V	CERAMIC	
	C2078	QETB1CM-107	100MF	16V	ELECTRO	
	C2079	QETB1CM-107	100MF	16V	ELECTRO	
	C2081	QCB1HK-102	1000PF	50V	CERAMIC	
	C2082	QCB1HK-102	1000PF	50V	CERAMIC	
	C2101	QEK51EM-106	10MF	25V	ELECTRO	
	C2102	QCB1HK-101	100PF	50V	CERAMIC	
	C2103	QFV81HJ-683	0.068MF	50V	T.FILM	
	C2104	QCB1CM-392	3900PF	16V	CERAMIC	
	C2105	QETB1HM-105	1MF	50V	ELECTRO	
	C2106	QETB1AM-107	100MF	10V	ELECTRO	
	C2107	QFV81HJ-104	0.1MF	50V	T.FILM	
	C2108	QCHB1EZ-223	0.022MF	25V	CERAMIC	
	C2111	QCB1HK-102	1000PF	50V	CERAMIC	
	C2112	QCB1HK-102	1000PF	50V	CERAMIC	
	C2113	QEK51EM-475	4.7MF	50V	ELECTRO	
	C2114	QETB1AM-107	100MF	10V	ELECTRO	
	C2121	QCSB1HJ-220	22PF	50V	CERAMIC	A
	C2121	QCSB1HJ-220	22PF	50V	CERAMIC	B
	C2121	QCSB1HJ-270	27PF	50V	CERAMIC	C
	C2121	QCSB1HJ-270	27PF	50V	CERAMIC	D
	C2121	QCSB1HJ-270	27PF	50V	CERAMIC	E
	C2122	QCSB1HJ-220	22PF	50V	CERAMIC	A
	C2122	QCSB1HJ-220	22PF	50V	CERAMIC	B
	C2122	QCSB1HJ-220	22PF	50V	CERAMIC	C
	C2122	QCSB1HJ-270	27PF	50V	CERAMIC	D
	C2122	QCSB1HJ-270	27PF	50V	CERAMIC	E
	C2122	QCSB1HJ-270	27PF	50V	CERAMIC	
	C2123	QETB1AM-107	100MF	10V	ELECTRO	
	C2124	QETB1AM-107	100MF	10V	ELECTRO	
	C2125	QCB1HK-471	470PF	50V	CERAMIC	
	C2131	QETB1HM-105	1MF	50V	ELECTRO	
	C2132	QCSB1HJ-220	22PF	50V	CERAMIC	A
	C2132	QCSB1HJ-220	22PF	50V	CERAMIC	B
	C2132	QCSB1HJ-100	10PF	50V	CERAMIC	C
	C2132	QCSB1HJ-100	10PF	50V	CERAMIC	D
	C2132	QCSB1HJ-100	10PF	50V	CERAMIC	E
	C2133	QCSB1HJ-220	22PF	50V	CERAMIC	A
	C2133	QCSB1HJ-220	22PF	50V	CERAMIC	B
	C2133	QCSB1HJ-100	10PF	50V	CERAMIC	C
	C2133	QCSB1HJ-100	10PF	50V	CERAMIC	D
	C2133	QCSB1HJ-100	10PF	50V	CERAMIC	E
	C2134	QETB1AM-107	100MF	10V	ELECTRO	
	C2135	QETB1AM-107	100MF	10V	ELECTRO	
	C2136	QETB1AM-107	100MF	10V	ELECTRO	
	C2137	QETB1HM-106	10MF	50V	ELECTRO	
	C2138	QETB1HM-106	10MF	50V	ELECTRO	
	C2141	QCHB0JH-227	220MF	6.3V	ELECTRO	
	C2142	QCHB0JH-227	220MF	6.3V	ELECTRO	
	C2143	QCHB1CM-476	47MF	16V	ELECTRO	
	C2144	QCHB1CM-476	47MF	16V	ELECTRO	

Δ : SAFETY PARTS

Resistors

Δ	ITEM	PART NUMBER	DESCRIPTION			AREA
	R597	QRD167J-471	470	1/6W	CARBON	
	R598	QRD167J-471	470	1/6W	CARBON	
	R841	PTH61G30BD2R2N			FUSIBLE	C
	R841	PTH61G30BD2R2N			FUSIBLE	D
	R841	PTH61G30BD2R2N			FUSIBLE	E
	R842	PTH61G30BD2R2N			FUSIBLE	C
	R842	PTH61G30BD2R2N			FUSIBLE	D
	R842	PTH61G30BD2R2N			FUSIBLE	E
	R1001	QRD167J-820	82	1/6W	CARBON	
	R1002	QRD167J-221	220	1/6W	CARBON	
	R1003	QRD167J-472	4.7K	1/6W	CARBON	
	R1004	QRD167J-183	18K	1/6W	CARBON	
	R1005	QRD167J-751	750	1/6W	CARBON	
	R1006	QRD167J-751	750	1/6W	CARBON	
	R1007	QRD167J-751	750	1/6W	CARBON	
	R1008	QRD167J-104	100K	1/6W	CARBON	
	R1009	QRD167J-122	1.2K	1/6W	CARBON	
	R1010	QRD167J-203	20K	1/6W	CARBON	
	R1012	QRD167J-301	300	1/6W	CARBON	
	R1013	QRD167J-820	82	1/6W	CARBON	
	R1014	QRD167J-100	10	1/6W	CARBON	
	R1015	QRD167J-472	4.7K	1/6W	CARBON	
	R1021	QRD167J-181	180	1/6W	CARBON	
	R1022	QRD167J-181	180	1/6W	CARBON	
	R1023	QRD167J-181	180	1/6W	CARBON	
	R1025	QRD167J-332	3.3K	1/6W	CARBON	
	R1026	QRD167J-103	10K	1/6W	CARBON	
	R1027	QRD167J-102	1K	1/6W	CARBON	
	R1028	QRD167J-103	10K	1/6W	CARBON	
	R1029	QRD167J-151	150	1/6W	CARBON	

Δ : SAFETY PARTS

Resistors

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
Δ	R1031	QRV144F-1802	18K 1/4W M.FILM	
Δ	R1032	QRV144F-1802	18K 1/4W M.FILM	
Δ	R1033	QRV144F-1802	18K 1/4W M.FILM	
Δ	R1034	QRV144F-1802	18K 1/4W M.FILM	
Δ	R1035	QRV144F-1802	18K 1/4W M.FILM	
Δ	R1036	QRV144F-1802	18K 1/4W M.FILM	
Δ	R1037	QRV144F-1802	18K 1/4W M.FILM	
Δ	R1038	QRV144F-1802	18K 1/4W M.FILM	
	R1039	QRD167J-273	27K 1/6W CARBON	
	R1040	QRD167J-273	27K 1/6W CARBON	
	R1041	QRD167J-273	27K 1/6W CARBON	
	R1042	QRD167J-273	27K 1/6W CARBON	
	R1043	QRD167J-393	39K 1/6W CARBON	
	R1044	QRD167J-393	39K 1/6W CARBON	
	R1045	QRD167J-393	39K 1/6W CARBON	
	R1046	QRD167J-393	39K 1/6W CARBON	
	R1047	QRD167J-102	1K 1/6W CARBON	
	R1048	QRD167J-102	1K 1/6W CARBON	
	R1049	QRD167J-182	1.8K 1/6W CARBON	
	R1050	QRD167J-182	1.8K 1/6W CARBON	
	R1051	QRD167J-474	470K 1/6W CARBON	
	R1052	QRD167J-474	470K 1/6W CARBON	
	R1053	QRD167J-331	330 1/6W CARBON	
	R1054	QRD167J-331	330 1/6W CARBON	
	R1055	QRD167J-302	3K 1/6W CARBON	
	R1056	QRD167J-302	3K 1/6W CARBON	
	R1057	QRD167J-512	5.1K 1/6W CARBON	
	R1058	QRD167J-512	5.1K 1/6W CARBON	
	R1059	QRD167J-101	100 1/6W CARBON	
	R1060	QRD167J-101	100 1/6W CARBON	
	R1061	QRD167J-392	3.9K 1/6W CARBON	
	R1062	QRD167J-392	3.9K 1/6W CARBON	
	R1063	QRD167J-331	330 1/6W CARBON	
	R1064	QRD167J-331	330 1/6W CARBON	
	R1065	QRD167J-103	10K 1/6W CARBON	
	R1066	QRD167J-103	10K 1/6W CARBON	
	R1067	QRD167J-273	27K 1/6W CARBON	
	R1068	QRD167J-273	27K 1/6W CARBON	
	R1069	QRD167J-331	330 1/6W CARBON	
	R1070	QRD167J-331	330 1/6W CARBON	
	R1071	QRD167J-103	10K 1/6W CARBON	
	R1072	QRD167J-103	10K 1/6W CARBON	
	R1073	QRD167J-105	1M 1/6W CARBON	
	R1074	QRD167J-105	1M 1/6W CARBON	
	R1075	QRD167J-104	100K 1/6W CARBON	
	R1076	QRD167J-104	100K 1/6W CARBON	
Δ	R1078	QRD14CJ-100S	10 1/4W UNF. CARBON	A
Δ	R1078	QRZ0077-100	10 1/4W FUSIBLE	B
Δ	R1078	QRZ0077-100	10 1/4W FUSIBLE	C
Δ	R1078	QRZ0077-100	10 1/4W FUSIBLE	D
Δ	R1078	QRZ0077-100	10 1/4W FUSIBLE	E
Δ	R1079	QRD14CJ-100S	10 1/4W UNF. CARBON	A
Δ	R1079	QRZ0077-100	10 1/4W FUSIBLE	B
Δ	R1079	QRZ0077-100	10 1/4W FUSIBLE	C
Δ	R1079	QRZ0077-100	10 1/4W FUSIBLE	D
Δ	R1079	QRZ0077-100	10 1/4W FUSIBLE	E
	R1082	QRD167J-101	100 1/6W CARBON	A
	R1082	QRD167J-101	100 1/6W CARBON	B
Δ	R1082	QRZ0077-680	68 1/4W FUSIBLE	C
Δ	R1082	QRZ0077-680	68 1/4W FUSIBLE	D
Δ	R1082	QRZ0077-680	68 1/4W FUSIBLE	E
	R1083	QRD167J-103	10K 1/6W CARBON	
	R1084	QRD167J-103	10K 1/6W CARBON	
	R1085	QRD167J-222	2.2K 1/6W CARBON	
	R1086	QRD167J-105	1M 1/6W CARBON	
	R1087	QRD167J-103	10K 1/6W CARBON	
	R1088	QRD167J-470	47 1/6W CARBON	
	R1089	QRD167J-102	1K 1/6W CARBON	
	R1090	QRD167J-223	22K 1/6W CARBON	
	R1092	QRD167J-103	10K 1/6W CARBON	
	R1094	QRD167J-103	10K 1/6W CARBON	
	R1095	QRD167J-103	10K 1/6W CARBON	
	R1096	QRD167J-561	560 1/6W CARBON	
	R1097	QRD167J-221	220 1/6W CARBON	
	R1103	QRD167J-153	15K 1/6W CARBON	
	R1104	QRD167J-153	15K 1/6W CARBON	
	R1109	QRD167J-221	220 1/6W CARBON	
	R1110	QRD167J-221	220 1/6W CARBON	
	R1111	QRD167J-103	10K 1/6W CARBON	
	R1112	QRD167J-100	10 1/6W CARBON	
	R1113	QRD167J-101	100 1/6W CARBON	
	R1114	QRD167J-101	100 1/6W CARBON	
	R1115	QRD167J-101	100 1/6W CARBON	
	R1141	QRD167J-101	100 1/6W CARBON	
	R1142	QRD167J-561	560 1/6W CARBON	
	R1143	QRD167J-101	100 1/6W CARBON	
	R1171	QRD167J-122	1.2K 1/6W CARBON	
	R1172	QRD167J-122	1.2K 1/6W CARBON	
	R1173	QRD167J-512	5.1K 1/6W CARBON	
	R1174	QRD167J-512	5.1K 1/6W CARBON	

Δ : SAFETY PARTS

Resistors

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
	R1175	QRD167J-104	100K 1/6W CARBON	
	R1176	QRD167J-104	100K 1/6W CARBON	
	R1177	QRD167J-821	820 1/6W CARBON	
	R1178	QRD167J-821	820 1/6W CARBON	
	R1179	QRD167J-821	820 1/6W CARBON	
	R1180	QRD167J-821	820 1/6W CARBON	
	R1181	QRD167J-821	820 1/6W CARBON	
	R1182	QRD167J-821	820 1/6W CARBON	
	R1183	QRD167J-821	820 1/6W CARBON	
	R1184	QRD167J-821	820 1/6W CARBON	
	R1185	QRD167J-104	100K 1/6W CARBON	
	R1186	QRD167J-104	100K 1/6W CARBON	
	R1187	QRD167J-102	1K 1/6W CARBON	
	R1188	QRD167J-102	1K 1/6W CARBON	
	R1189	QRD167J-103	10K 1/6W CARBON	
	R1190	QRD167J-103	10K 1/6W CARBON	
	R1191	QRD167J-104	100K 1/6W CARBON	
	R1192	QRD167J-104	100K 1/6W CARBON	
	R1193	QRD167J-103	10K 1/6W CARBON	
	R1194	QRD167J-103	10K 1/6W CARBON	
	R1201	QRD167J-122	1.2K 1/6W CARBON	
	R1202	QRD167J-122	1.2K 1/6W CARBON	
	R1203	QRD167J-822	8.2K 1/6W CARBON	
	R1204	QRD167J-822	8.2K 1/6W CARBON	
	R1205	QRD167J-104	100K 1/6W CARBON	
	R1206	QRD167J-104	100K 1/6W CARBON	
	R1207	QRD167J-821	820 1/6W CARBON	
	R1208	QRD167J-821	820 1/6W CARBON	
	R1209	QRD167J-821	820 1/6W CARBON	
	R1210	QRD167J-821	820 1/6W CARBON	
	R1215	QRD167J-104	100K 1/6W CARBON	
	R1216	QRD167J-104	100K 1/6W CARBON	
	R1217	QRD167J-102	1K 1/6W CARBON	
	R1218	QRD167J-103	10K 1/6W CARBON	
	R1221	QRD167J-473	47K 1/6W CARBON	
	R1222	QRD167J-473	47K 1/6W CARBON	
	R1223	QRD167J-332	3.3K 1/6W CARBON	
	R1224	QRD167J-332	3.3K 1/6W CARBON	
	R1225	QRD167J-332	3.3K 1/6W CARBON	
	R1226	QRD167J-332	3.3K 1/6W CARBON	
	R1227	QRD167J-332	3.3K 1/6W CARBON	
	R1228	QRD167J-332	3.3K 1/6W CARBON	
	R1229	QRD167J-622	6.2K 1/6W CARBON	
	R1230	QRD167J-622	6.2K 1/6W CARBON	
	R1231	QRD167J-133	13K 1/6W CARBON	
	R1232	QRD167J-133	13K 1/6W CARBON	
	R1233	QRD167J-474	470K 1/6W CARBON	
	R1234	QRD167J-474	470K 1/6W CARBON	
	R1235	QRD167J-103	10K 1/6W CARBON	
	R1236	QRD167J-103	10K 1/6W CARBON	
	R1237	QRD167J-102	1K 1/6W CARBON	
	R1238	QRD167J-102	1K 1/6W CARBON	
	R1239	QRD167J-103	10K 1/6W CARBON	
	R1240	QRD167J-103	10K 1/6W CARBON	
	R1241	QRD167J-303	30K 1/6W CARBON	
	R1242	QRD167J-393	39K 1/6W CARBON	
	R1243	QRD167J-273	27K 1/6W CARBON	
	R1244	QRD167J-223	22K 1/6W CARBON	
	R1245	QRD167J-104	100K 1/6W CARBON	
	R1246	QRD167J-274	270K 1/6W CARBON	
	R1247	QRD167J-622	6.2K 1/6W CARBON	
	R1248	QRD167J-274	270K 1/6W CARBON	
	R1249	QRD167J-473	47K 1/6W CARBON	
	R1250	QRD167J-332	3.3K 1/6W CARBON	
	R1251	QRD167J-181	180 1/6W CARBON	
	R1252	QRD167J-183	18K 1/6W CARBON	
	R1253	QRD167J-103	10K 1/6W CARBON	
	R1255	QRD167J-103	10K 1/6W CARBON	
	R1256	QRD167J-103	10K 1/6W CARBON	
	R1257	QRD167J-103	10K 1/6W CARBON	
	R1258	QRD167J-103	10K 1/6W CARBON	
	R1259	QRD167J-103	10K 1/6W CARBON	
	R1260	QRD167J-103	10K 1/6W CARBON	
	R1261	QRD167J-103	10K 1/6W CARBON	
	R1262	QRD167J-103	10K 1/6W CARBON	
	R1263	QRD167J-103	10K 1/6W CARBON	
	R1264	QRD167J-103	10K 1/6W CARBON	
	R1265	QRD167J-103	10K 1/6W CARBON	
	R1266	QRD167J-103	10K 1/6W CARBON	
	R1268	QRD167J-222	2.2K 1/6W CARBON	
	R1270	QRD167J-222	2.2K 1/6W CARBON	
	R2001	QRD167J-750	75 1/6W CARBON	
	R2002	QRD167J-750	75 1/6W CARBON	
	R2005	QRD167J-750	75 1/6W CARBON	
	R2006	QRD167J-750	75 1/6W CARBON	
	R2007	QRD167J-750	75 1/6W CARBON	
	R2008	QRD167J-750	75 1/6W CARBON	
	R2011	QRD167J-750	75 1/6W CARBON	
	R2012	QRD167J-750	75 1/6W CARBON	
	R2013	QRD167J-750	75 1/6W CARBON	

Δ : SAFETY PARTS

Resistors

△	ITEM	PART NUMBER	DESCRIPTION			AREA
	R2014	QRD167J-750	75	1/6W	CARBON	
	R2017	QRD167J-750	75	1/6W	CARBON	
	R2018	QRD167J-750	75	1/6W	CARBON	
	R2021	QRD167J-100	10	1/6W	CARBON	
	R2022	QRD167J-103	10K	1/6W	CARBON	
	R2023	QRD167J-100	10	1/6W	CARBON	
	R2024	QRD167J-103	10K	1/6W	CARBON	
	R2025	QRD167J-100	10	1/6W	CARBON	
	R2026	QRD167J-103	10K	1/6W	CARBON	
	R2027	QRD167J-100	10	1/6W	CARBON	
	R2028	QRD167J-103	10K	1/6W	CARBON	
	R2029	QRD167J-100	10	1/6W	CARBON	
	R2030	QRD167J-103	10K	1/6W	CARBON	
	R2031	QRD167J-100	10	1/6W	CARBON	
	R2032	QRD167J-103	10K	1/6W	CARBON	
	R2033	QRD167J-122	1.2K	1/6W	CARBON	
	R2034	QRD167J-122	1.2K	1/6W	CARBON	
	R2035	QRD167J-122	1.2K	1/6W	CARBON	
	R2036	QRD167J-122	1.2K	1/6W	CARBON	
△	R2041	QRD14CJ-100S	10	1/4W	UNF. CARBON	A
△	R2041	QRD14CJ-100S	10	1/4W	UNF. CARBON	B
△	R2041	QRZ0077-100	10	1/4W	FUSIBLE	C
△	R2041	QRZ0077-100	10	1/4W	FUSIBLE	D
△	R2041	QRZ0077-100	10	1/4W	FUSIBLE	E
△	R2042	QRD14CJ-180S	18	1/4W	UNF. CARBON	
△	R2046	QRD14CJ-100S	10	1/4W	UNF. CARBON	A
△	R2046	QRD14CJ-100S	10	1/4W	UNF. CARBON	B
△	R2046	QRZ0077-100	10	1/4W	FUSIBLE	C
△	R2046	QRZ0077-100	10	1/4W	FUSIBLE	D
△	R2046	QRZ0077-100	10	1/4W	FUSIBLE	E
	R2051	QRD167J-750	75	1/6W	CARBON	
	R2052	QRD167J-750	75	1/6W	CARBON	
	R2053	QRD167J-750	75	1/6W	CARBON	
	R2054	QRD167J-750	75	1/6W	CARBON	
	R2055	QRD167J-750	75	1/6W	CARBON	
	R2056	QRD167J-750	75	1/6W	CARBON	
	R2057	QRD167J-562	5.6K	1/6W	CARBON	
	R2058	QRD167J-562	5.6K	1/6W	CARBON	
	R2059	QRD167J-562	5.6K	1/6W	CARBON	
	R2061	QRD167J-331	330	1/6W	CARBON	
	R2062	QRD167J-331	330	1/6W	CARBON	
	R2063	QRD167J-331	330	1/6W	CARBON	
	R2064	QRD167J-100	10	1/6W	CARBON	
	R2065	QRD167J-100	10	1/6W	CARBON	
	R2066	QRD167J-100	10	1/6W	CARBON	
	R2067	QRD167J-103	10K	1/6W	CARBON	
	R2068	QRD167J-103	10K	1/6W	CARBON	
	R2069	QRD167J-103	10K	1/6W	CARBON	
	R2071	QRD167J-103	10K	1/6W	CARBON	
	R2072	QRD167J-103	10K	1/6W	CARBON	
	R2073	QRD167J-122	1.2K	1/6W	CARBON	
	R2074	QRD167J-122	1.2K	1/6W	CARBON	
	R2101	QRD167J-103	10K	1/6W	CARBON	
	R2102	QRD167J-303	30K	1/6W	CARBON	
	R2103	QRD167J-332	3.3K	1/6W	CARBON	
	R2104	QRD167J-103	10K	1/6W	CARBON	
	R2105	QRD167J-104	100K	1/6W	CARBON	
	R2106	QRD167J-152	1.5K	1/6W	CARBON	
	R2107	QRD167J-391	390	1/6W	CARBON	
	R2108	QRD167J-472	4.7K	1/6W	CARBON	
	R2109	QRD167J-221	220	1/6W	CARBON	
	R2110	QRD167J-100	10	1/6W	CARBON	
	R2111	QRD167J-123	12K	1/6W	CARBON	
	R2112	QRD167J-220	22	1/6W	CARBON	
	R2113	QRD167J-332	3.3K	1/6W	CARBON	
	R2114	QRD167J-392	3.9K	1/6W	CARBON	
	R2115	QRD167J-103	10K	1/6W	CARBON	
	R2116	QRD167J-202	2K	1/6W	CARBON	
	R2117	QRD167J-473	47K	1/6W	CARBON	
	R2118	QRD167J-222	2.2K	1/6W	CARBON	
	R2119	QRD167J-472	4.7K	1/6W	CARBON	
	R2120	QRD167J-222	2.2K	1/6W	CARBON	
	R2121	QRD167J-332	3.3K	1/6W	CARBON	
	R2122	QRD167J-472	4.7K	1/6W	CARBON	
	R2123	QRD167J-182	1.8K	1/6W	CARBON	
	R2124	QRD167J-152	1.5K	1/6W	CARBON	
	R2125	QRD167J-101	100	1/6W	CARBON	
	R2126	QRD167J-473	47K	1/6W	CARBON	
	R2127	QRD167J-470	47	1/6W	CARBON	
	R2128	QRD167J-223	22K	1/6W	CARBON	
	R2129	QRD167J-473	47K	1/6W	CARBON	
△	R2131	QRD14CJ-100S	10	1/4W	UNF. CARBON	A
△	R2131	QRD14CJ-100S	10	1/4W	UNF. CARBON	B
△	R2131	QRZ0077-100	10	1/4W	FUSIBLE	C
△	R2131	QRZ0077-100	10	1/4W	FUSIBLE	D
△	R2131	QRZ0077-100	10	1/4W	FUSIBLE	E
△	R2132	QRD14CJ-330S	33	1/4W	UNF. CARBON	A
△	R2132	QRD14CJ-330S	33	1/4W	UNF. CARBON	B
△	R2133	QRD14CJ-100S	10	1/4W	UNF. CARBON	A
△	R2133	QRD14CJ-100S	10	1/4W	UNF. CARBON	B
△	R2133	QRZ0077-100	10	1/4W	FUSIBLE	C
△	R2133	QRZ0077-100	10	1/4W	FUSIBLE	D
△	R2133	QRZ0077-100	10	1/4W	FUSIBLE	E

△ : SAFETY PARTS

Others

△	ITEM	PART NUMBER	DESCRIPTION	AREA
		EMW10150-003	CIRCUIT BOARD	
	H001	E70945-H25	HEAT SINK	
	H002	E70306-001	HEAT SINK	
	J598	EMN00YV-213A	2P PIN JACK	
	J599	EMN00YV-213A	2P PIN JACK	
	CX651	ECX0180-000EF	RESONATOR	
	EW001	EW011-138	TERMINAL WIRE	
	HT001	SBSE3010CC	SCREW	
	HT002	SBSB3008Z	SCREW	
	J1001	TORX174	I.C(OPTICAL JACK)	
	J1002	TORX174	I.C(OPTICAL JACK)	
	J1003	EMN00YV-212A	2P PIN JACK	
	J2001	EMD0489-009	JACK BOARD ASSY	
	J2002	EMD0489-009	JACK BOARD ASSY	
	J2003	EMD0489-009	JACK BOARD ASSY	
	J2011	EMN00YV-311A	3P PIN JACK	
	J2012	EMN00YV-311A	3P PIN JACK	
	K1001	ENZ8101-007	INDUCTOR	
	L1001	EQL4004-560	INDUCTOR	
	L1002	EQL4004-560	INDUCTOR	
	L1081	EQL4004-1R2	INDUCTOR	
	L1082	EQL4004-1R0	INDUCTOR	
	L1083	EQL4004-560	INDUCTOR	
	L1101	EQF0601-222	CERAMIC FILTER	
	L1121	EQF0601-222	CERAMIC FILTER	
	L1122	EQF0601-222	CERAMIC FILTER	
	L1123	EQF0601-222	CERAMIC FILTER	
	L1124	EQF0601-222	CERAMIC FILTER	
	L1141	EQF0601-222	CERAMIC FILTER	
	L1142	EQF0601-222	CERAMIC FILTER	
	L1143	EQF0601-222	CERAMIC FILTER	
	L1144	EQF0601-222	CERAMIC FILTER	
	L1145	EQF0601-222	CERAMIC FILTER	
	L1146	EQF0601-222	CERAMIC FILTER	
	L2101	EQL4004-330	INDUCTOR	A
	L2101	EQL4004-330	INDUCTOR	B
	L2101	EQL4004-270	INDUCTOR	C
	L2101	EQL4004-270	INDUCTOR	D
	L2101	EQL4004-270	INDUCTOR	E
	PA421	EMV5142-908	PLUG ASSY	
	PA422	EMV5142-907	PLUG ASSY (7PIN)	
	PA423	EMV5142-905	PLUG ASSY (6PIN)	
	PA424	EMV5109-006A	PLUG ASSY (6PIN)	
	PA425	EMV5109-004A	PLUG ASSY (4PIN)	
	PA657	EMV5109-007A	PLUG ASSY (7PIN)	
	PB241	EWS293-0113	SOCKET WIRE (3PIN)	
	PB243	EWS324-A920	SOCKET WIRE (4PIN)	
	PB244	EWS324-A942	SOCKET WIRE (4PIN)	
	PB301	EWS293-0130	SOCKET WIRE (3PIN)	
	PB424	EWS296-0142	SOCKET WIRE (6PIN)	
	PB651	EWS296-0135	SOCKET WIRE (6PIN)	
	PB654	EWS327-A935	SOCKET WIRE (7PIN)	
	PB655	EWS324-A912	SOCKET WIRE (4PIN)	
	PB657	EWS297-1113	SOCKET WIRE (7PIN)	
	PB658	EWS293-0135	SOCKET WIRE (3PIN)	
	PB812	EWS323-A930	SOCKET WIRE (3PIN)	
	X2101	ECX0000-503KS	RESONATOR	
	X2102	ECX1431-818DF	RESONATOR	A
	X2102	ECX1431-818DF	RESONATOR	B
	X2102	ECX1773-447DF	RESONATOR	C
	X2102	ECX1773-447DF	RESONATOR	D
	X2102	ECX1773-447DF	RESONATOR	E

△ : SAFETY PARTS

I.C.s

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
	IC102	LC7218	I.C. SANYO	
	IC104	LA1266A	I.C. SANYO	
	IC105	LA3401	I.C. SANYO	

Δ : SAFETY PARTS

Diodes

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
	D104	1SS119	SILICON HITACHI	
	D105	1SS119	SILICON HITACHI	
	D106	1SS119	SILICON HITACHI	
	D115	1SS119	SILICON HITACHI	
	D116	1SS119	SILICON HITACHI	
	D120	1SS119	SILICON HITACHI	
	VC105	SVC342(L)	VARICAP SANYO	

Δ : SAFETY PARTS

Capacitors

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
	C101	QCF21HP-223	0.022MF 50V CERAMIC	
	C122	QCF21HP-223	0.022MF 50V CERAMIC	
	C126	QCF21HP-223	0.022MF 50V CERAMIC	
	C132	QCS21HJ-561	560PF 50V CERAMIC	
	C133	QCHB1EZ-223	0.022MF 25V CERAMIC	
	C134	QETB1EM-106	10MF 25V ELECTRO	
	C135	QCC21EM-223	0.022MF 25V CERAMIC	
	C136	QCT26CH-180	18PF 50V CERAMIC	
	C137	QCT26CH-221	220PF 50V CERAMIC	
	C138	QCT26CH-241	240PF 50V CERAMIC	
	C149	QCF21HP-223	0.022MF 50V CERAMIC	
	C150	QCHB1EZ-223	0.022MF 25V CERAMIC	
	C151	QCF21HP-223	0.022MF 50V CERAMIC	
	C152	QCF21HP-223	0.022MF 50V CERAMIC	
	C153	QCC21EM-223	0.022MF 25V CERAMIC	
	C154	QCF21HP-223	0.022MF 50V CERAMIC	
	C155	QETB1EM-227	220MF 25V ELECTRO	
	C156	QETB1HM-475	4.7MF 50V ELECTRO	
	C157	QETB1HM-474	0.47MF 50V ELECTRO	
	C158	QCB81HK-101	100PF 50V CERAMIC	
	C159	QCB81HK-101	100PF 50V CERAMIC	
	C160	QCB81HK-221	220PF 50V CERAMIC	
	C161	QCHB1EZ-223	0.022MF 25V CERAMIC	
	C162	QETB1EM-106	10MF 25V ELECTRO	
	C163	QFN81HJ-332	3300PF 50V MYLAR	
	C164	QCHB1EZ-223	0.022MF 25V CERAMIC	
	C165	QETB1HM-474	0.47MF 50V ELECTRO	
	C166	QETB1HM-225	2.2MF 50V ELECTRO	
	C167	QETB1HM-225	2.2MF 50V ELECTRO	
	C168	QETB1HM-475	4.7MF 50V ELECTRO	
	C169	QCF21HP-223	0.022MF 50V CERAMIC	
	C170	QCHB1EZ-223	0.022MF 25V CERAMIC	
	C171	QETB1EM-106	10MF 25V ELECTRO	
	C172	QCVB1CM-103	0.01MF 16V CERAMIC	
	C173	QFN81HK-223	0.022MF 50V MYLAR	
	C174	QFN81HK-473	0.047MF 50V MYLAR	
	C175	QETB1EM-106	10MF 25V ELECTRO	
	C176	QCY21HK-102	1000PF 50V CERAMIC	A
	C177	QCS21HJ-561	560PF 50V CERAMIC	B
	C177	QCS21HJ-561	560PF 50V CERAMIC	E
	C177	QCS21HJ-271	270PF 50V CERAMIC	H
	C177	QCS21HJ-271	270PF 50V CERAMIC	H
	C178	QCS21HJ-561	560PF 50V CERAMIC	A
	C178	QCS21HJ-561	560PF 50V CERAMIC	B
	C178	QCS21HJ-271	270PF 50V CERAMIC	E
	C178	QCS21HJ-271	270PF 50V CERAMIC	H
	C179	QETB1HM-225	2.2MF 50V ELECTRO	
	C180	QETB1HM-225	2.2MF 50V ELECTRO	
	C181	QETB1EM-106	10MF 25V ELECTRO	
	C182	QETB1HM-225	2.2MF 50V ELECTRO	
	C183	QETB1HM-105	1MF 50V ELECTRO	
	C184	QETB1HM-105	1MF 50V ELECTRO	
	C185	QETB1HM-225	2.2MF 50V ELECTRO	
	C186	QETB1HM-474	0.47MF 50V ELECTRO	
	C192	QCC21EM-473	0.047MF 25V CERAMIC	
	C193	QCS21HJ-180	18PF 50V CERAMIC	
	C194	QCS21HJ-180	18PF 50V CERAMIC	
	C195	QEN51HM-474	0.47MF 50V NON POLE	
	C196	QCY21HK-102	1000PF 50V CERAMIC	
	C200	QCF21HP-103	0.01MF 50V CERAMIC	
	C230	QCF21HP-103	0.01MF 50V CERAMIC	

Δ : SAFETY PARTS

Resistors

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
	R117	QRD167J-100	10 1/6W CARBON	
	R118	QRD167J-332	3.3K 1/6W CARBON	
	R119	QRD167J-221	220 1/6W CARBON	
	R121	QRD167J-391	390 1/6W CARBON	
	R122	QRD167J-272	2.7K 1/6W CARBON	
	R123	QRD167J-102	1K 1/6W CARBON	
	R124	QRD167J-681	680 1/6W CARBON	
	R125	QRD167J-332	3.3K 1/6W CARBON	
	R126	QRD167J-221	220 1/6W CARBON	
	R131	QRD167J-331	330 1/6W CARBON	
	R132	QRD167J-103	10K 1/6W CARBON	
	R133	QRD167J-473	47K 1/6W CARBON	
	R135	QRD167J-470	47 1/6W CARBON	
	R136	QRD167J-103	10K 1/6W CARBON	
	R146	QRD167J-560	56 1/6W CARBON	
	R147	QRD167J-103	10K 1/6W CARBON	
	R148	QRD167J-103	10K 1/6W CARBON	
	R149	QRD167J-223	22K 1/6W CARBON	
	R150	QRD167J-103	10K 1/6W CARBON	
	R151	QRD167J-224	220K 1/6W CARBON	
	R153	QRD167J-103	10K 1/6W CARBON	
	R154	QRD167J-103	10K 1/6W CARBON	
	R155	QRD167J-562	5.6K 1/6W CARBON	
	R156	QRD167J-822	8.2K 1/6W CARBON	
	R157	QRD167J-103	10K 1/6W CARBON	
	R158	QRD167J-183	18K 1/6W CARBON	A
	R158	QRD167J-273	27K 1/6W CARBON	B
	R158	QRD167J-273	27K 1/6W CARBON	E
	R158	QRD167J-273	27K 1/6W CARBON	H
	R159	QRD167J-561	560 1/6W CARBON	
	R160	QRD167J-123	12K 1/6W CARBON	A
	R160	QRD167J-123	12K 1/6W CARBON	B
	R160	QRD167J-273	27K 1/6W CARBON	E
	R160	QRD167J-273	27K 1/6W CARBON	H
	R161	QRD167J-124	120K 1/6W CARBON	A
	R161	QRD167J-124	120K 1/6W CARBON	B
	R161	QRD167J-184	180K 1/6W CARBON	E
	R161	QRD167J-184	180K 1/6W CARBON	H
	R162	QRD167J-124	120K 1/6W CARBON	A
	R162	QRD167J-124	120K 1/6W CARBON	B
	R162	QRD167J-184	180K 1/6W CARBON	E
	R162	QRD167J-184	180K 1/6W CARBON	H
	R163	QRD167J-332	3.3K 1/6W CARBON	
	R164	QRD167J-332	3.3K 1/6W CARBON	
	R165	QRD167J-184	180K 1/6W CARBON	A
	R165	QRD167J-184	180K 1/6W CARBON	B
	R165	QRD167J-274	270K 1/6W CARBON	E
	R165	QRD167J-274	270K 1/6W CARBON	H
	R166	QRD167J-184	180K 1/6W CARBON	A
	R166	QRD167J-184	180K 1/6W CARBON	B
	R166	QRD167J-274	270K 1/6W CARBON	E
	R166	QRD167J-274	270K 1/6W CARBON	H
	R168	QRD167J-103	10K 1/6W CARBON	
	R169	QRD167J-103	10K 1/6W CARBON	
	R171	QRD167J-682	6.8K 1/6W CARBON	
	R172	QRD167J-682	6.8K 1/6W CARBON	
	R179	QRD167J-562	5.6K 1/6W CARBON	
	R180	QRD167J-472	4.7K 1/6W CARBON	
	R181	QRD167J-222	2.2K 1/6W CARBON	
	R182	QRD167J-181	180 1/6W CARBON	
	R187	QRD167J-101	100 1/6W CARBON	
	R190	QRD167J-472	4.7K 1/6W CARBON	
	R194	QRD167J-472	4.7K 1/6W CARBON	
	R195	QRD167J-473	47K 1/6W CARBON	
	R196	QRD167J-103	10K 1/6W CARBON	
	R197	QRD167J-222	2.2K 1/6W CARBON	
	R198	QRD167J-332	3.3K 1/6W CARBON	
	R199	QRD167J-472	4.7K 1/6W CARBON	
Δ	R200	QRZ0077-270	27 1/4W FUSIBLE	B
Δ	R200	QRZ0077-270	27 1/4W FUSIBLE	E
Δ	R200	QRZ0077-270	27 1/4W FUSIBLE	H
Δ	R201	QRD145J-680S	68 1/4W UNF. CARBON	A
Δ	R201	QRD145J-680S	68 1/4W UNF. CARBON	B
Δ	R201	QRZ0062-680	68 1/4W FUSIBLE	E
Δ	R201	QRZ0062-680	68 1/4W FUSIBLE	H
Δ	R202	QRD145J-470S	47 1/4W UNF. CARBON	A
Δ	R202	QRD145J-470S	47 1/4W UNF. CARBON	B
Δ	R202	QRZ0062-220	22 1/4W FUSIBLE	E
Δ	R202	QRZ0062-470	47 1/4W FUSIBLE	H
Δ	VR167	QVZ3518-104	100K 0.1W VARIABLE	

Δ : SAFETY PARTS

Others

Δ	ITEM	PART NUMBER	DESCRIPTION	AREA
	J102	E11849-303(S)	CIRCUIT BOARD	
	L101	QMS3501-021	MINI JACK	
	L106	EQL4004-1R0	INDUCTOR	
	P101	EQL3001-102K	INDUCTOR	
		EMV7112-008	CONNECTOR(8PIN)	

Δ : SAFETY PARTS

Others

ITEM	PART NUMBER	DESCRIPTION	AREA
P103	EMV7112-006	CONNECTOR(6PIN)	B
P105	EMV7112-003	CONNECTOR(3PIN)	
T101	EQR1111-014	AM RF COIL	
T103	EQR1207-015	MW OSC COIL	
T105	EQT2140-012	I.F. TRANSFORMER	
T106	EQT2140-013	I.F. TRANSFORMER	A
T107	ECB1560-006	CERAMIC FILTER	
AT101	EMB41YV-401K	ANTENNA TERMINAL	
AT101	EMB41YV-401K	ANTENNA TERMINAL	
AT101	EMB41YV-301K	ANTENNA TERMINAL	
AT101	EMB41YV-401K	ANTENNA TERMINAL	H
CF101	ECB2123-001R	CERAMIC FILTER	
CF101	ECB2123-001R	CERAMIC FILTER	
CF101	ECB2118-001R	CERAMIC FILTER	
CF101	ECB2118-001R	CERAMIC FILTER	
CF102	ECB2123-001R	CERAMIC FILTER	A
CF102	ECB2123-001R	CERAMIC FILTER	
CF102	ECB2118-001R	CERAMIC FILTER	
CF102	ECB2118-001R	CERAMIC FILTER	
EP101	E70859-001	EARTH PLATE	

△ SAFETY PARTS

Others

ITEM	PART NUMBER	DESCRIPTION	AREA
EP102	E70859-001	EARTH PLATE	A
EP110	E70225-001	EARTH PLATE	
FE101	EA2204-001	FRONT END	
FE101	EA2204-001	FRONT END	
FE101	EA2203-003	FRONT END	
FE101	EA2204-001	FRONT END	H
LP101	EQF0101-002	LOW PASS FILTER	
LP102	EQF0102-001	LOW PASS FILTER	
SW202	QSS1201-039	SLIDE SWITCH	
TC105	EN21003-006	TRIMMER	
XT102	ECX0007-200KC	RESONATOR	E
XT103	ECX0000-456KR	RESONATOR	

△ SAFETY PARTS

Accessories List

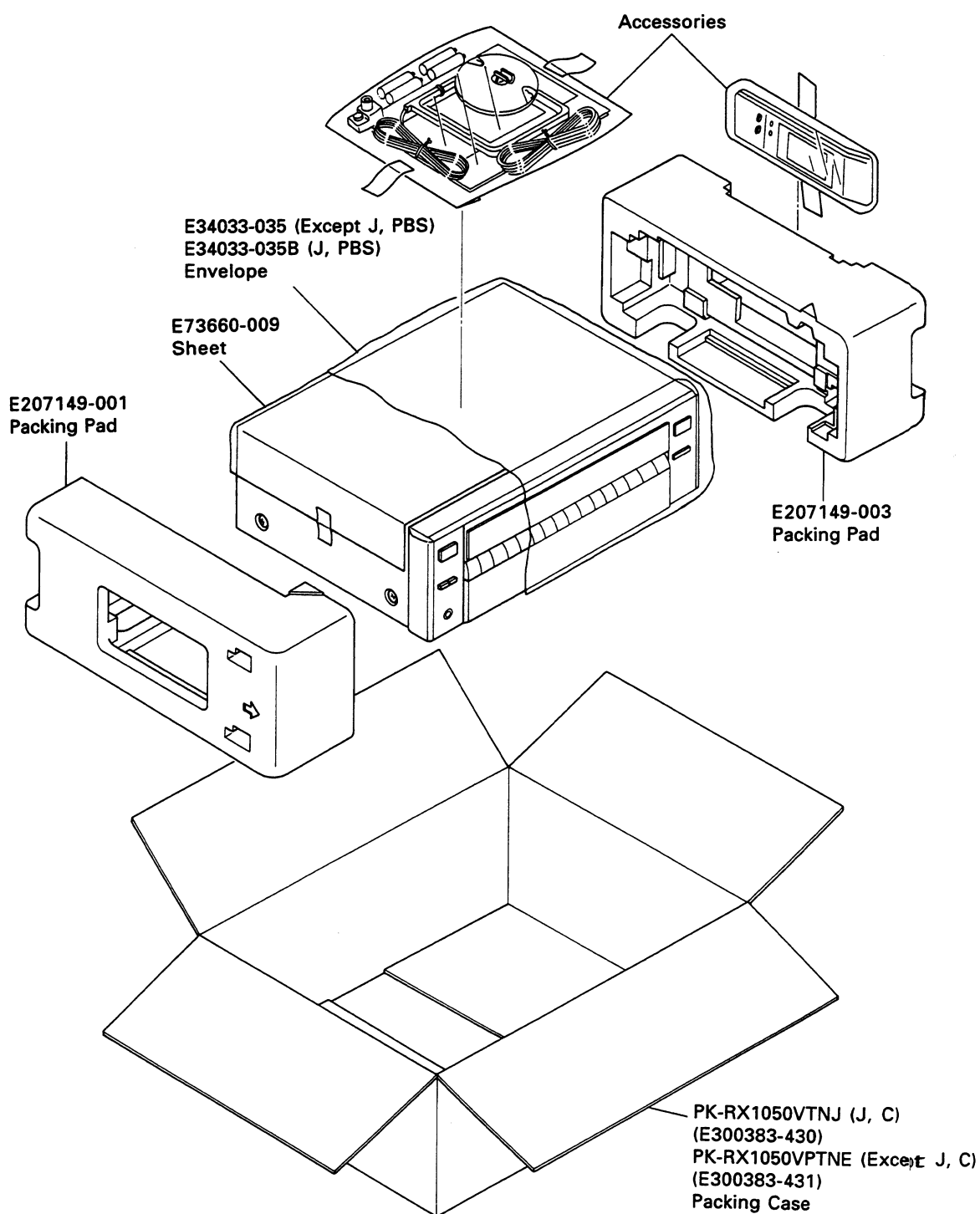
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	E30580-1774A	Instruction Book	1		J
	E30580-1778A	Instruction Book	1		Except J, PBS
	E30580-1778ABS	Instruction Book	1		PBS
	BT-20048E	Warranty Card	1		J
	BT-20025K	Warranty Card	1		C
	BT-20117	Warranty Card	1		PG
	BT20060	Warranty Card	1		PBS
	BT-20122	Audio Warranty Card	1	for New Zealand	PA
	BT-20122-1	Sticker	1	for New Zealand	PA
	BT-20108A	Service Information Card	1		J
	BT-20044G	Safety Instruction Sheet	1		J
	BT20071A	Service Center List	1		C
	BT20066A	EEC Agency	1		PBS
	QZL1008-001	FTZ Information Sheet	1		PG
	E43486-458	Instruction Sheet	1		C
△	E43486-371A	Sheet	1		PBS
△	EMC0202-001BS	AC Plug	1		PBS
△	E04056	Siemens Plug	1		PU
	QMF51A2-6R3S	Fuse	1	F005 (T6.3A/250V)	PU
	E67142-T6R3	Fuse Label	1		PU
△	E35497-015	Caution Sheet	1	220V	PU
	EMZ2001-011	Adapter	1		PE, PEF, PBS
	EQB4001-012	AM Loop Antenna	1		
	E304084-001	Loop Stand	1		
	EWP502-005K	Built in Antenna	1		Except PG
	E67007-001	Wire Antenna	1		PG
	RM-SR1050U	Remote Controller	1		
	UR66EC364C	Battery Cover	1		
	AM4J-2PSA	Battery	3		
	E66416-003	Envelope	1	for Warranty Card	J
	E6581-4	Envelope	1	for Fuse & Fuse Label	PU
	E41202-2	Envelope	1		Except PBS
	E41202-2B	Envelope	1		PBS

The Marks for Designated Areas

J-----the U.S.A.
C-----Canada
PA-----Australia (with PAL)
PE,PEF-----Continental Europe (with PAL)
PG-----Germany (with PAL)
PBS-----the U.K. (with PAL)
PU-----Universal Type (with PAL)
No mark indicates all areas.

△ Safety Parts

Packing Materials and Part Numbers

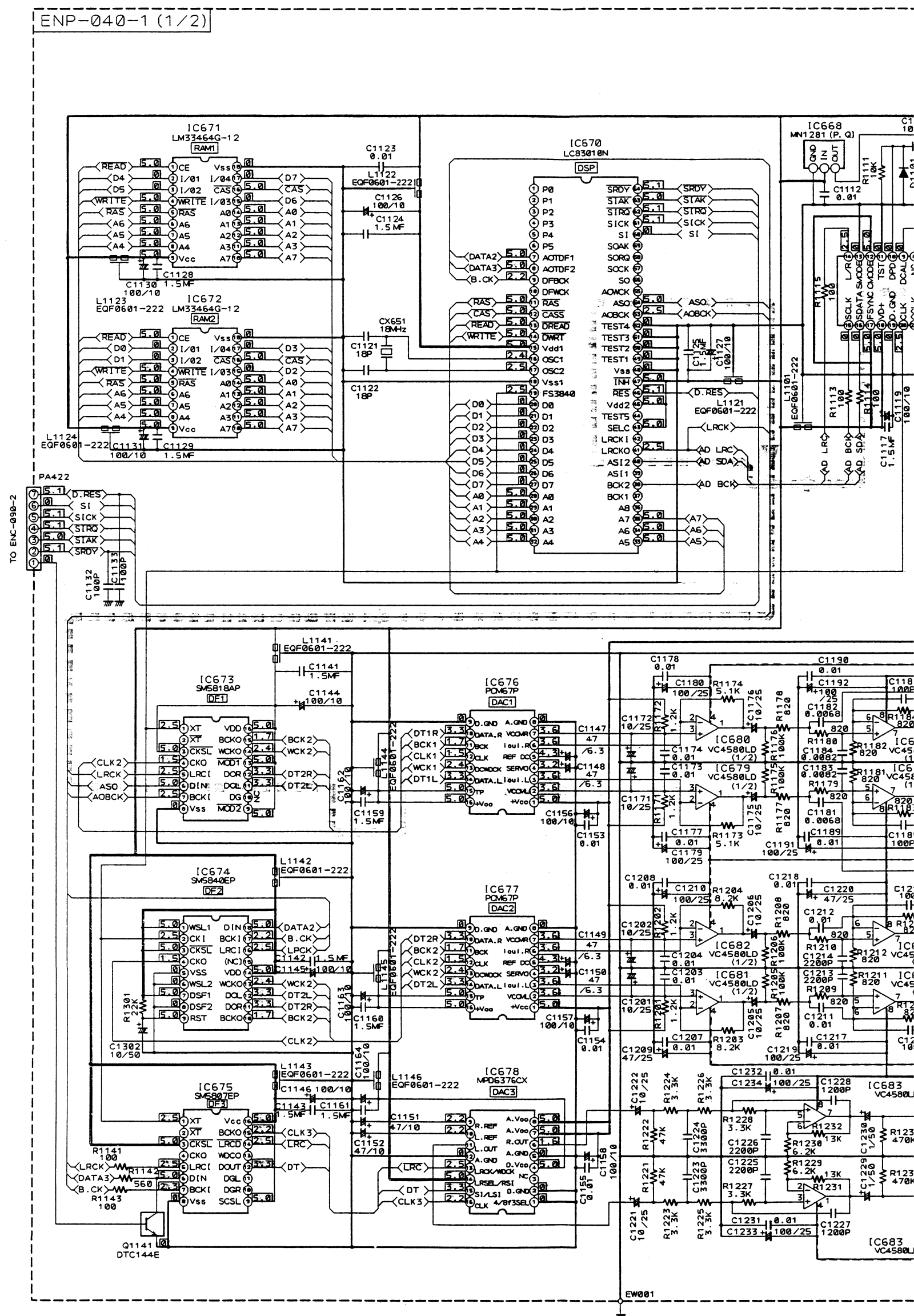


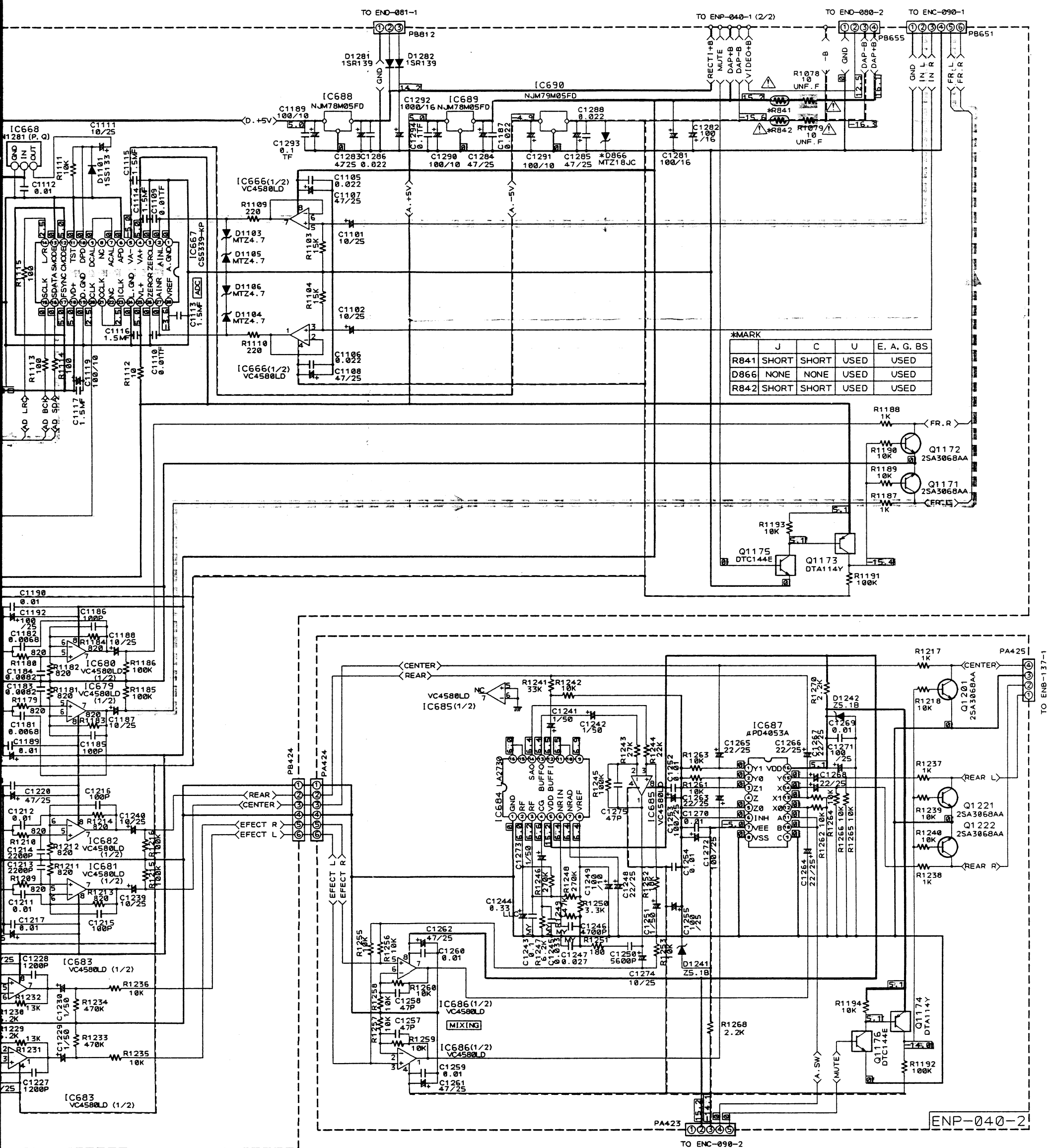
The Marks for Designated Areas	
J.....the U.S.A.	PG.....Germany (with PAL)
C.....Caanada	PBS.....the U.K. (with PAL)
PA.....Aistralia (with PAL)	PU.....Universal Type (with PAL)
SPE,PEF...Continental Europe (with PAL)	No mark indicates all areas.

— MEMO —

A B C D E F G H I

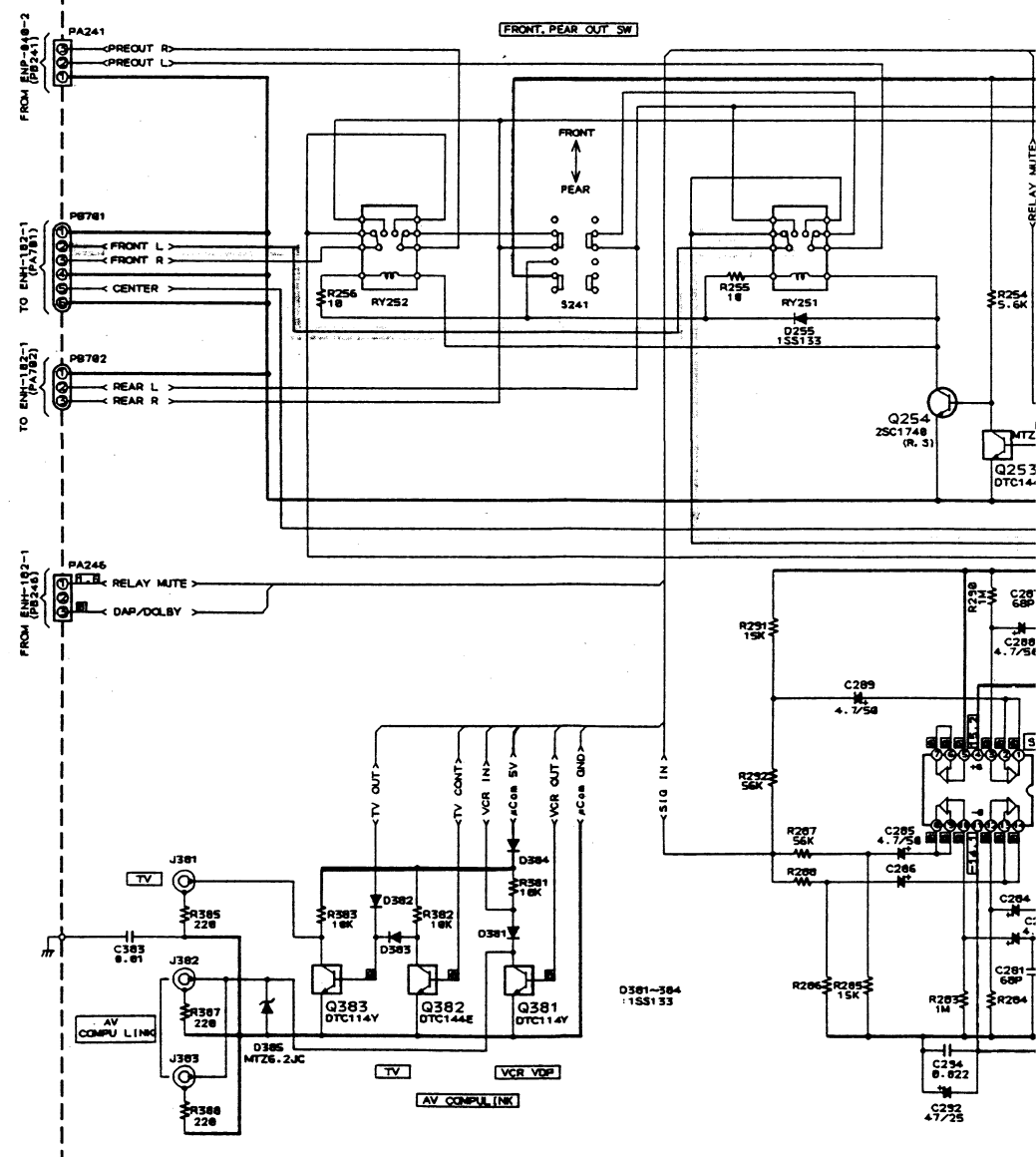
■ DAP Section





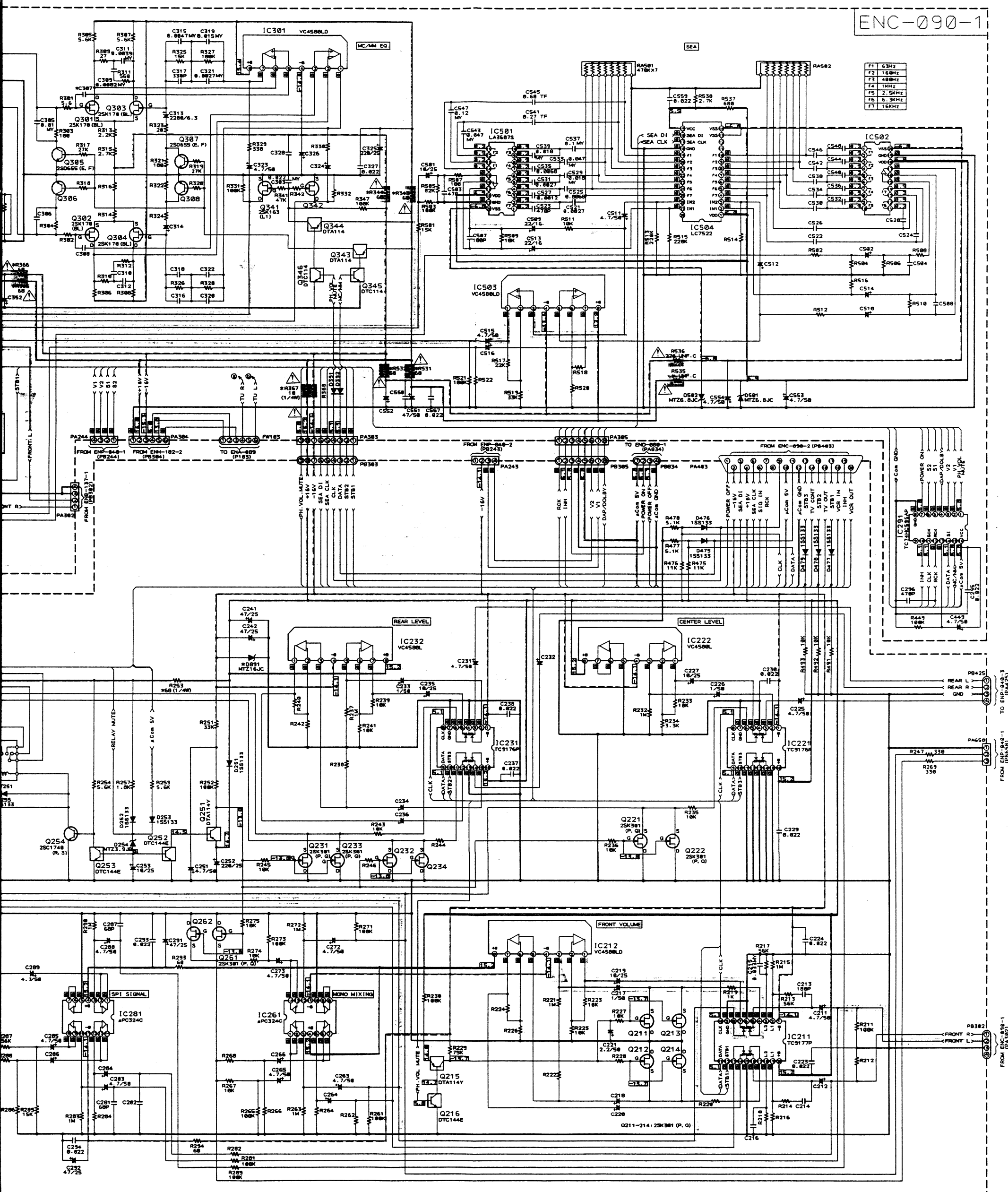


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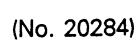


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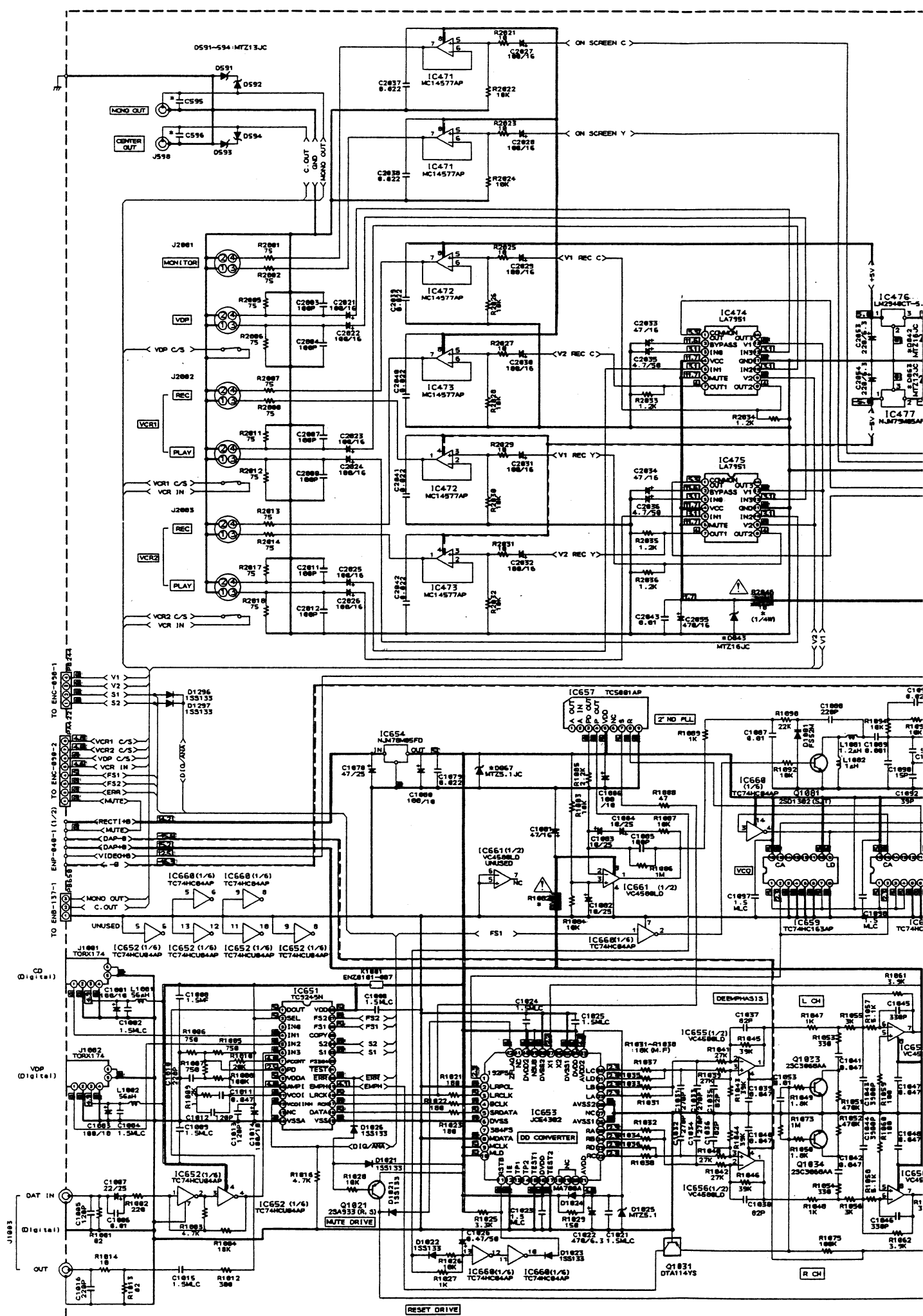
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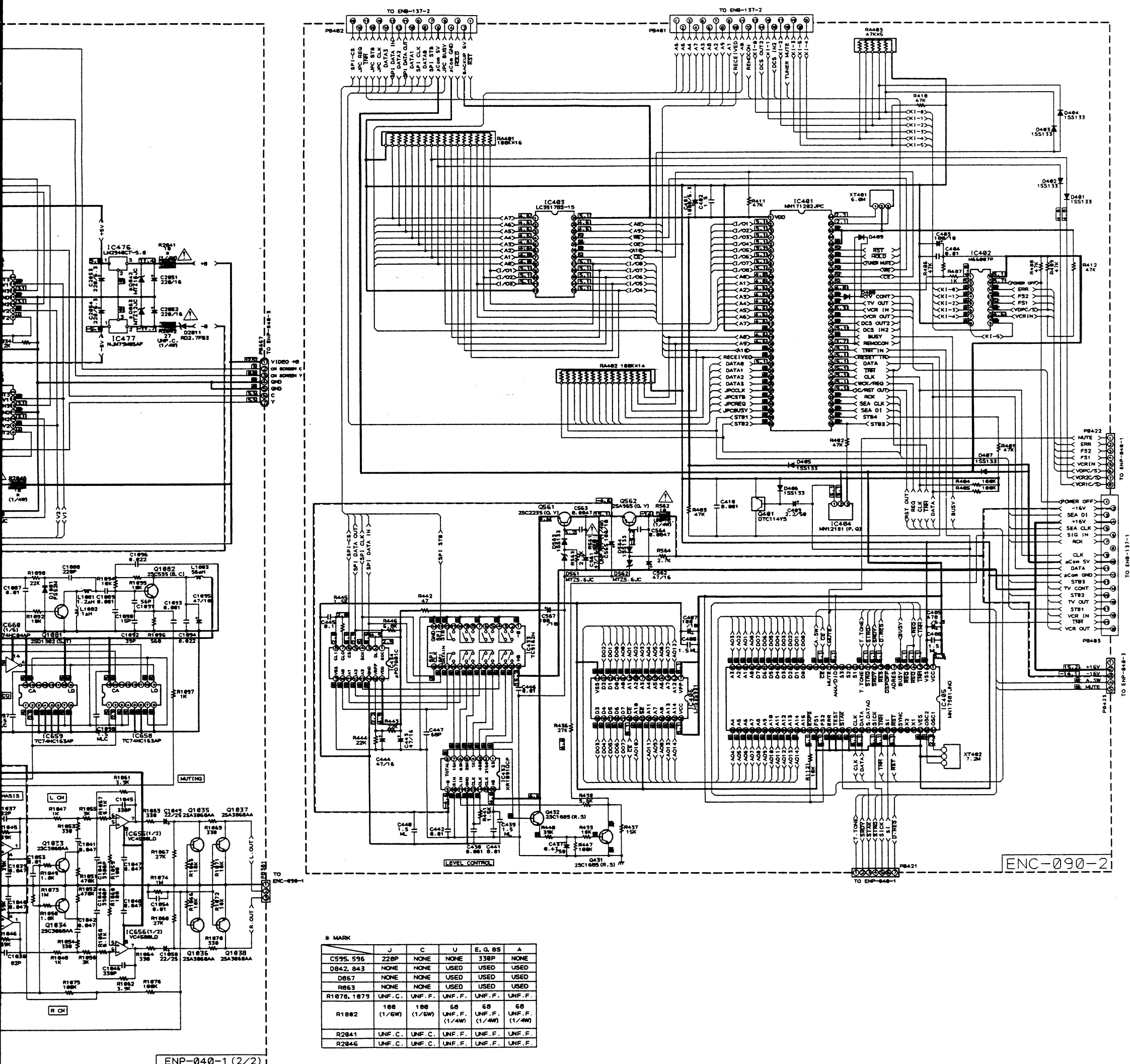
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A B C D E F G H



H I J K L M N O P Q R

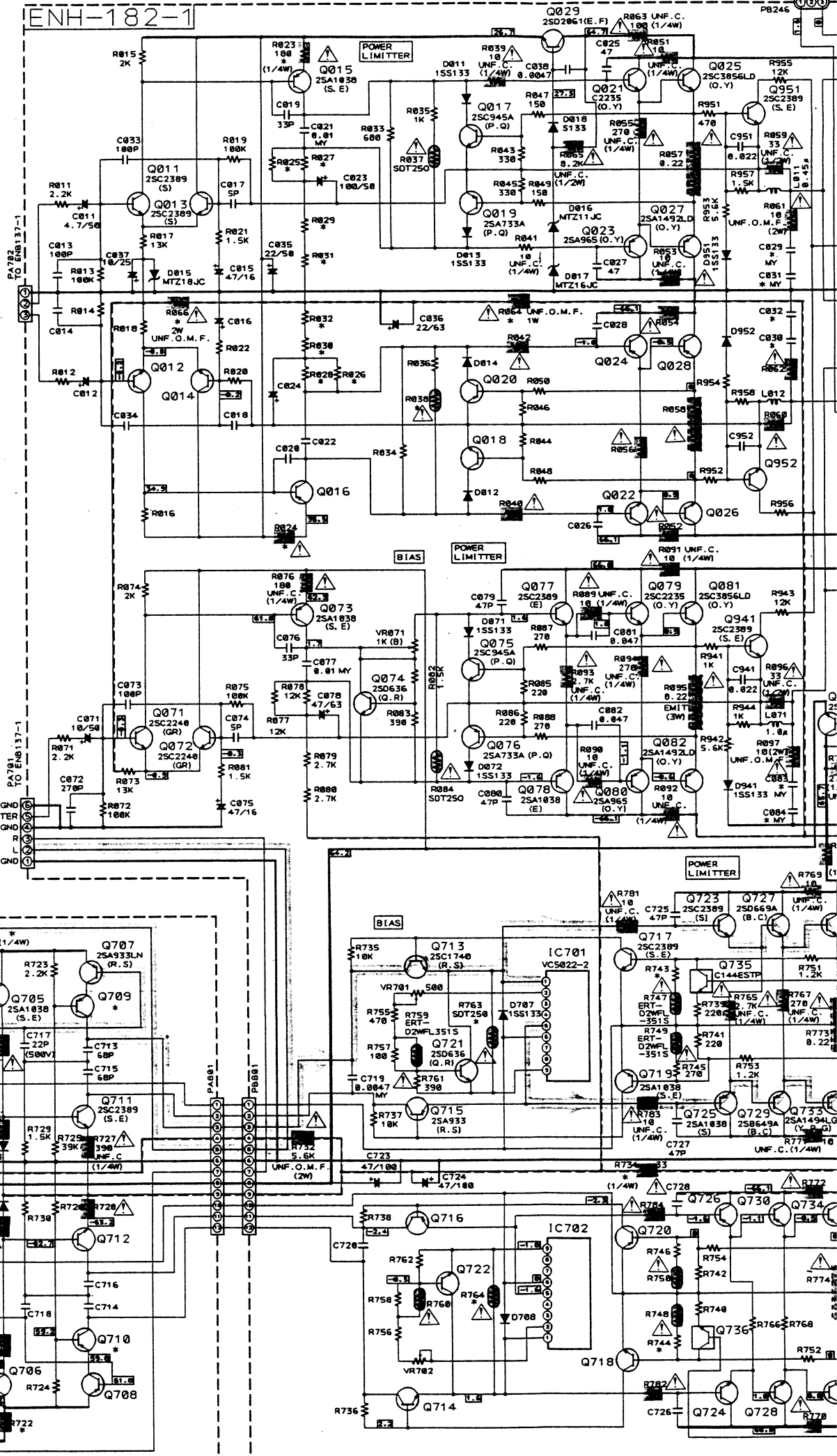
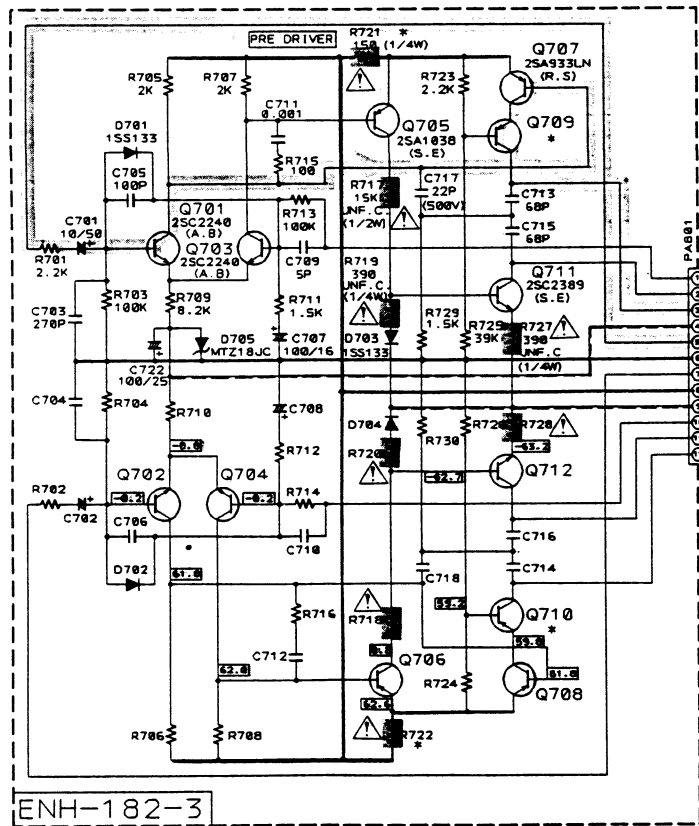
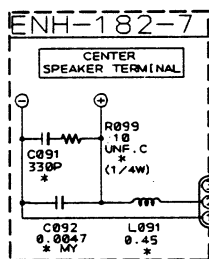
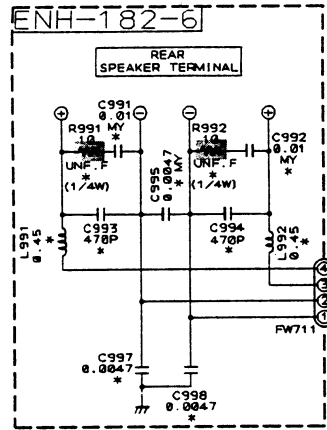


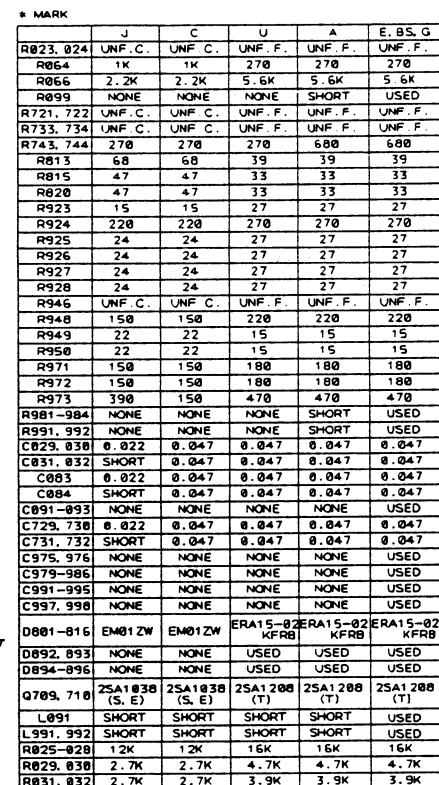
* MARK

	J	C	U	E, G, BS	A
C595, 596	220P	NONE	NONE	330P	NONE
D842, 843	NONE	NONE	USED	USED	USED
D857	NONE	NONE	USED	USED	USED
R863	NONE	NONE	USED	USED	USED
R1076, 1079	UNF. C.	UNF. F.	UNF. F.	UNF. F.	UNF. F.
R1882	100 (1/6W)	100 (1/6W)	50 (1/4W)	50 (1/4W)	50 (1/4W)
R2041	UNF. C.	UNF. C.	UNF. F.	UNF. F.	UNF. F.
R2046	UNF. C.	UNF. C.	UNF. F.	UNF. F.	UNF. F.

Schematic Diagrams

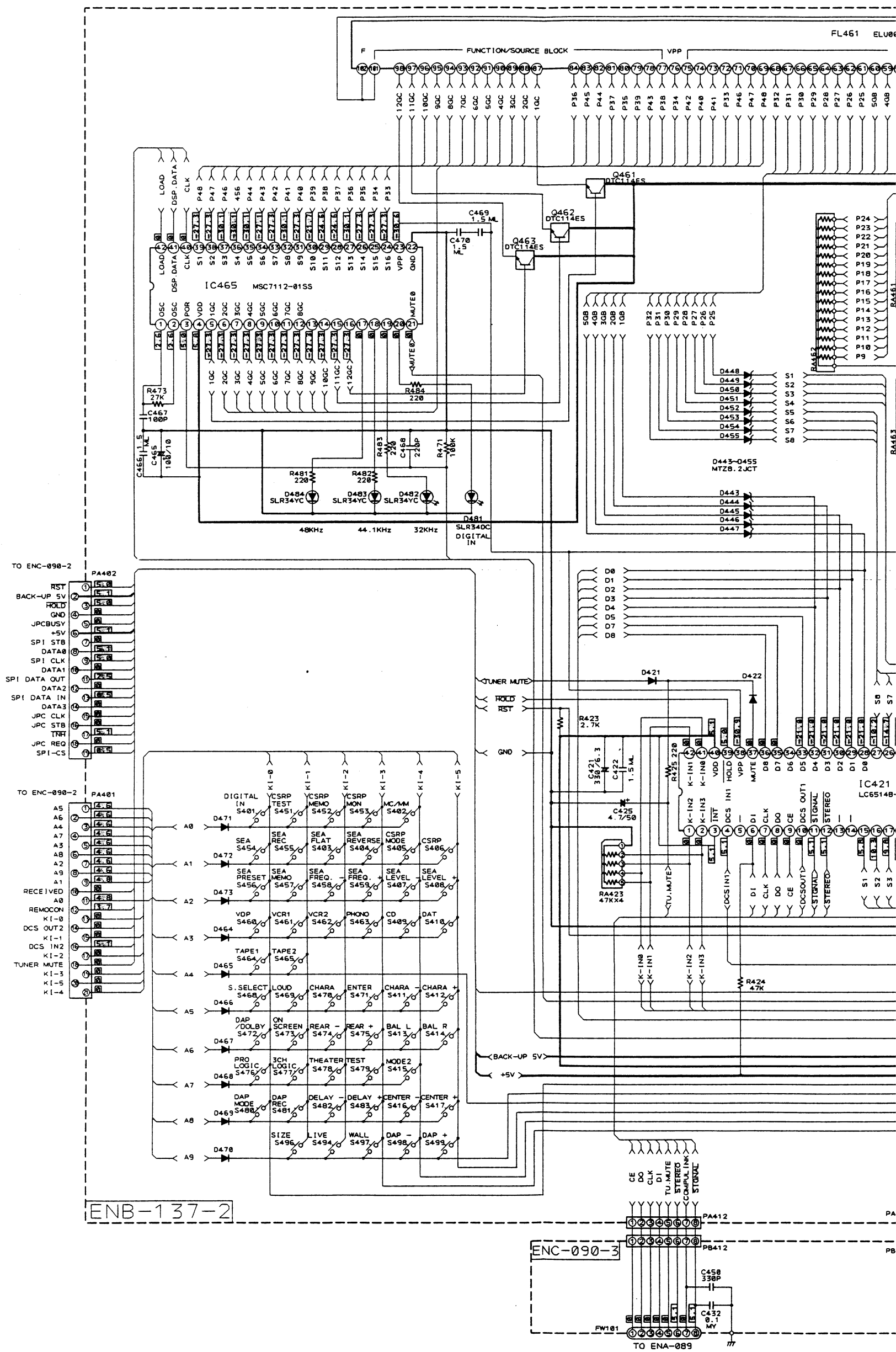
■ Main, Rear and Center Amplifier Section

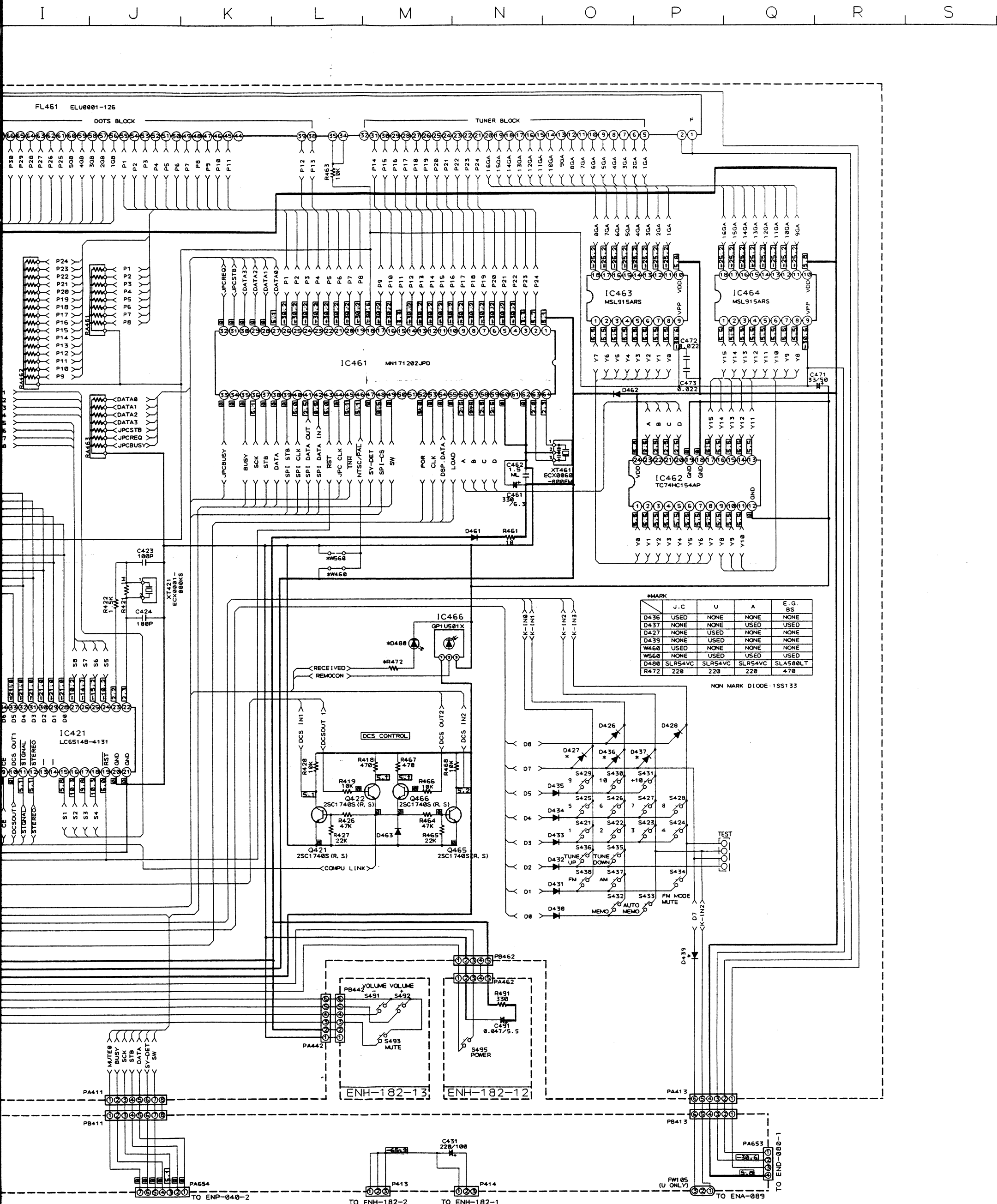




- (No. 20284)

■ FL Display & Tuner Control Section





■ Tuner Section

